

Human Genomic DNA for Estrogen receptor Beta (SEQ ID NO:1)

AGCCCGCTGTTTCAGGCCCCCGGATCTGGAAGGAGTGTGAGAGCTGGAGCGCGCTGGCCTCATCGGTG
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CCTCAGCCCCCGAGTAGCTTGGACCACAGGTGCATGCCACCACGCCGGCTAATTTTCTATTTTGGTA
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GATATGTTAAAGGCACAGACTTAGTAATATAATGTCATTATAATAAACCCTAAACACATTGTCTCAT
ATTGTGTTGACCTAAACAGTGAAATTAAGAAGAAATTTGAAGGAAATGTTTCTGGTAAATTCAGATA
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CAGGAGACGAAGGTTGCAGTGAAGCAAGATTACACCATGCACTCCAGCCTGAGCAACAAAGCGAACT
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TTACAGGCATCAACCCACCGGTGACAGCTTTTATACATTTTAAATGATAAGACAGGTTAATAAAAA

FIGURE 1, sheet 1 of 66

FIGURE 1, sheet 2 of 66

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
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CTCAGTGTAAAGCAAGCATGAAGTTAGCTATAGCTCGACCTTAACAGCTAATCAGGTAAACTCTTCA
ACTCAGTTTGAACGTAACTAGTATACTACAGACTTTTGTTTTTGTCTCAGAGGTAAGAGAAACAA
TGGCTATATGGCATACTATGAGGATTAATTTTATATGTCTACTTGACTGGGCCATAGGGTGCCCAATATA
TGGTCAAAACATTATTTAGGTGTTCTGTGAGAGTGTGTTGGATAATTTAACATTTAAATTGGTATAC
GAGTAAAGCAGATGATACTCCCTATTGTGAGTAGGCTCATCCACTGAGTTAAAGGCTGAATAGAACAA

FIGURE 1, sheet 4 of 66

AAAGATTAACCCCTCCCCAGGTAAGAGCGAATTCTTCTGCCTGATGGCCTTCAAAATGGGACATCAGCT
CTTTTCTGCCTTTGGACTCAAACCATTTGGCTCTTCTGGGTCTTGAGCCTGCTGGCCTTTGGACTGGA
GCTACACTATCAGCTCTCTTGATTTTCAGGCCTTCAAACCTAGACTCAAACATACATTATTGGCTCCCTTG
GGTCTCCAGATCCCAGCAGATCTTGGGAATTGCCAGCCTTCATAATTGCTGAGGCAGTTCCTTTTTTTT
GAGATGGGATCTTCTCTGTCAACCACACTGGAGTGTAGTGGTAGCATGATGGCTTACTGCAACCTCAAA
CACCTGGGCATAAGTGATGCTCCTGACTCAGCCTCCTGAGTAGCAGGGACCACAGGCACATGCCACCATG
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GCTGGGCTCAAGCTATCCTTCCACCTCAGCCTCCCAAGGTGCTGGGATTATAGGCATGAGCCACTGTGCC
CAGCCAAAAGTCAGAATAATTGAATGGCATCTTAAAGTCTGAAAGAAAAAATACTGACAACCCAGAA
TCTATACTCAGTGAAATATCTTCAAAATGAAGATGAGGCCGGGCGGCTGGCTCAGCCTGTAATCC
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GAGATCGAGACCATCCTGGCCAACATGGTGAAACCCGTCTCTACTAAAAATACAGAAATTAAGTGGCA
TGGTGGCAGATGCCTGTAATCCAGCTACTCTGGAAGCTGAGGCAGGAGAAATGCTTGAACCCAGGAAATC
AGGTGTCAGTGAGCTGAGATCATGCCACTGCATGCAATCTGGCGACAGAGCGAGATCTGTCTCAAAAA
AAAAAAAAAAAAAAAAATAGAGCATGCCTATAATCTGAGCTACTCAGGAGGCTGAGACACGAGAATCACT
TGAACCCAGGGCGGCGAGGTGAGTGAAGCAGCATCACACCACTGCATTCAGCCTGGGCGACAGAGTG
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GGGAGACGAGATTTTATTATTACTCAATCAGTATCCACAAGCATTCGCGCTTCAGAAATTTTAAGGAC
AACATGTTGGGTGGGAGGAAGCCAGTGAAGTGGGAGTGTGATTTGGTCAGAGCTGAAATCATAGGGAAATG
GAAGCTGTCTTCTTAAGCTGAGTCAATTCCTGGGTGGGAGTGCAGATCAGATGAGTCAGGTATCAAT
CTACGTGGTGCCAGCTGACCCATCAATGCAGGGTCTGCAAAATATCTCAAGCACTGATCTTAGGAGCAG
TTTAGGGAGGGTCAGAATCTTGTAGCCTCCAGCTGCAAGACTCTTAAACCATAAATTTCTAATCTTGTGGT
TAATGTTAGTCTTACCAAGCAATCTAGTCTCCAGGCAAGAGGAGGTCTGCTTTGGGAAAGGGCTGTCA
TCTTTGTTTTAACTATAAATAAAGTAAGTTTCTCCCAAGTTAGTTTACGCTACACCCAGGAATGC
ACAAGGACAGTTTGGAGGTTAGAAACAAGATGGGGTCAAGTTAAGTTAGATCTCTTTCACTGTCTCAGCA
TAATTTTGCACAGGCGGTTTTCAGTATAATCATTTTCACTACAAGACAAGATTTAAAAAAGAAAACTAATG
CTAAGCATTTTCAAGAAACATAGTGTAGCCGGGTGAGTGGCTCACGCCTGTAATTCAGCACCTTGG
GAGGCTGAGGCGGGCGGATCACGAGGTGAGGAGATCGAGACCATCCTGGCTAACATGGTGAAACCCCGT
TCTACTAAAAACAAAAAAATAGCCGGGTGTTGGTGGCGGCACCTGAGTCCAGCTACTCAGGAGGC
TGAGGCGAGGAGAAATGGGTCAACCCAGGAGGAGAGCTTGCAGTGAGCCAAGATCCTGCCACTGCACTCCA
GCCTGGGTGACAGAGCGAGACTCTGTCTCAATAAAAAAGAGGAAACATACTGTAGCCAGACGCCA
CCTATAGTCCCAGATACTTGGGAGGCTGAGGCGAGGAGTAGCTTGGGACAGTTTGAAGCAGCCTGAG
CAACATAGCAAGACCTGTCTCCAAATTTAAAAATGTTTAAAAAGAGATATATTTTACATATAAGAAACA
CAGAAAGATGTTATTAATAAATAAATAAATGACATTTGGGTAATGTGAATATTACCTAAAGAAAGCTGCA
TCTATGTGGAAGTGTACCGGAATGGGTCCCAATCTAGACCCCAAGAGAGGGTTCTTGGACCTCACGCA
AGAAAGAAATAGGGGCAATCCATAAAGTGAAGCAAGTTTATTGGGAAAGTAAAGGAATAAAGAAATGGC
TACTCCATAGGTAGATCACAGTATGGGCTGCTTAAGTGAATATCTCAGTTATTTCTTGATATATGCT
AAACAAGGGGTGAGTATTCATCAGTTTCTGGAAGAGGGGAGGCAATTTCTCGGAAGTGAAGGTTCTCT
CTTTTTTTAGACTGTATAGGTAACCTTCTGATGTTGCCATGGTATTTATAAACTGTGATGGCCCTAGTG
GGAGAGTCTTTTAGCATGCTAATGCATTATAATAGTGTATAATGAGCACTGAGGACAACAGAGGTCAC
CTTTGTCAACATCTTTGGTGGTGGTGGCTATCTTCTTTATCGCATTTCTGTTTTCATCAGCAGGCT
CTTTGTGGTCTGTATCTTGTGCTGACCTCCTATCTCATCTGTGACTAAGAATGCCTAAGCTCCTGGGAA
TGCAGCCAGTAGTTCTGAGCTTACTTTACCCAGCCCTATTCAAGATGGAGTTGCTCTGGTTCTAATGCC
CTTGACAGAACCTCCTGATTGTCAATATTTACAGTAGCAGCAGGAGCTATTACACCCAAATTTTAC
CTTAAAAAGAAATGGCTTCAAAATGACCTCCCCATGGGAAATATTGCAGGACTTAACACAGGATTTGTTT
TTCTCTTCTATTCTCTACGATTTCTTTCTTTCTTTTTTTTCTTTTTTCCGAGGTGGAGTTTCTCTCTT
TTTGGCCAGGCTGGAGTGCACTGGTGAATCTTGGCTCACCAACCTCTGTCTCCCGGTTCAAGCAAT
TCTCTGCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCGCCACCACGCCAGGCTAATTTGTATT
TTTAGTAGAGACGGTGTCTTCCATGTTGCAACCTCAGGTGACCCGCCACCTCGCCCTCCCAAGTGCT
GGGATTACAGGCGTGAGCCACTGCACCCAGCCTACCATTCTTTTTTGGGACAGGGTCTTGTGTGTGCC
CAGGCTGTTTCTAATCTGGGCTCAAGCGATCCACTGGCCTCAGCCTCTGAAGTGCTGGGATTACAG

FIGURE 1, sheet 5 of 66

GAGTCAGCCACTGCACCAGGCCATTTCTCTACCATTTCTGATCTCTCTCTAGAAACACTTGGATAACTG
CACAGCTCCTTTTCATAAGAAATATATTTTAGGGCCGGGTGTGGTGGCTTATGCCTGTAATCTCAGCACCT
TGGGAGGCCCGCGCAGGTGGATCAACCGAGGTCAGGAGTCAAGACCAGCCTGGCCAAGATGGTGAACCC
CCATCTCCACTAAAAATACAAAAATTAGTCAGGAGTGGTGGTGCATGCCGTGAATCCCAGCTACTCAGG
AGGCTTAGGCCAGGAGAACTACCTGAACCCAGGAGCGGAGGTTGCAGTGAACCAACATTGCGCCATTGCA
TGCCAGTCTGAGCAACAAGAGTGAACTTTGTCTCAAAAAACAAATAACAAATGAACAAACAACAAAA
AATCATTGTATTCTCTCAGAGTAAGAGCAAGATCATCCCTGCAGAAGCTTAGGAACATATGCACAGAAC
TTTACAGAACAGGGGCGATGCTTTAAGTGAAGGCTGACTACTGACCAGAGAATGGAATTTCTGAGAGGGCT
CAAGGAATAAAAGGAACTAGGCAGGGAAGGGAAGGCGCCCATCTGAAGCAAACTTCAGCGGCCATCAG
GATATCTTGTGGTGGTCACAAGTTGTAGGCTCTGTTTTTGAAGGTTTGGGTATAGCGCAGGATTCCATT
TGTCTACTTGGCTACACCTCTGCCTGAGGTACACTGTTGCCAGAAAAGAGGGTCCCAATCCAGACCCCAA
GAGCAGGTTACTGGATCTTGCACAGGAAATAATTCAAGGGAAGTCACACAGCACAGAAAAAGCAAGTT
CATCTCCCTGTTTACTTAAGTTATCGCCAGAAAGCAGGAGGAGAACACGCCATCCTTGTGTAGTCTCT
TATTTATAAGAACTTATGAGAAGCTATAATTAACTTGAACATGCAGATGTGCTCACTAAAGGTAGGG
GCTATTGGTGTATAGATGACCATTAATCTTTCAACCTAAGCCTGCTCATTAATGGCATCTTTAATAAAG
TGGGCTACACTCTTAGGACATCTGGACATCTGCAGGATTGGTGGGAGATGTTCTGTATGGCCACCAATA
TTCTGTAAATTAATTTGGTGGTCACTGTTGGATGTGGCTATTTTTCAGACCACAAGCATTAACCTTACAG
GTGCTAGTACTCATTTCAAGGTGGAGTCACTCTGGCCATGTTTTACCAAACAGAGGCTGGTAAGGA
GAGGTTCCTCTAACACCATGAGGTCAACGTCACTCAAGTTCTGGCCAGCCAACTCTGAAGAGCAAGGAG
TCCCAAAATTGAGGATCAAGTTCTCCAGAAATCATTTGCTATGGGTGGCAAGCAGTAGATTCCCTGAAGC
CAATCTCCACAGTTGTCTGGAATTTTGGGAGCTTCATTTGCCAGTTGGCAGTGCCAATGGGGACCCCGC
TGGGAAGCCATAGTAGCACCTTTGGGCTCTGCATAGGACTTGTCAATACACCATATTGGAGTCGTTGGCT
CTTTTTGTATTTTAAGTTGAATTTGAAGATTGGCTGAGTTGGTTTCATGATATTGTTGCCTACTGATA
TCTTACACAGAGTACGAGTACATCTGGTTGAAGAGAGAAAGGCAGAGAGAGAAAGCAGACTTTTTGGAGTT
GTTGTCTTACGAGTCAACAGATTATCCCTTATATGCATATGAATGGACAATAAGATTCTTGGATATT
TTTATGGCAAGGTGAGGAGAAATTTTTATGCTTTTTGAAGAAACATGATTTTTATTACCTTGGGTTAT
TCCAGGAGATAATTGATAAATGTTGAGTAGTTTGGTCTCTTCTTAAAGGAGGATCAAGAGAGCAG
TACAGCATGGCAGACTAGAAGCATTTCTGTTTTTTGTTTTGTTTTGTTTTGAGATGAAGTCTCACTCTGT
TGCCGAGGCTGGAGTGCAGTGGAGTGATCTCTGCTCACTGCAAGCTCCGCTCCTGGGTTCAAGTGATT
TCTGCTCAGCCTCCAAAGTATCTGGGATTACAGGCATGTGCCACCACGCGCGCTAATTTTTACATTT
CTAGTAGAGACGGGGTTTACCATGTTAGCCAGGCTGGTCTCAAACCTCCTGACCTTAAATGATCCACCCA
CCTCGGCCCTCCCAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCTGAAGGGTCTTCAAGTATCA
TCTCTGTGATAGATAAATTTTAGTGGGTTATCTACATTGGCCATTGACATCTAGAATTAGGGTATGAG
TTGGGTTTGAAGAAGGAAATGAGGCTGGTCTCCAATAGACAGTGATTATATGATAAGCAGAAAGTGT
ACAGAAGTCTGGTAGAGGAGGATGGGAGACAGATTATGTCAAGGAGATAGTAAAGTTTATTTTGAAT
CCTTAGACTATGCCGGGCTCAGTGGGTCAACCTGTAATCCAGCACTTTGGGAGGCCGAGGCGGGCGGA
TCACTTAGGCTGAGGTTTCAGGACCGCTGACCAACATGAAGAACTCGTCTTTTATTAATAAATAACA
AATTAGCCAGGCGTGGTGGTGCATGCTGTAATCCAGCTACTTGGGAGGCTGAGGCAGGAGAACTCACTT
GAATCTGGGAGGCGGAGGTTGTGGTGACCAAGATCAGCCATTGCACTCTGCCTGGGCAATAAGGGCG
AAACTCCATCTCAAAAAAAGAAAGAAATCCTTAGACTATAAGTTTGTATATAATCTGCATGTAAACA
AGGTCTATAGCTTAAATAATGTGCGAGGGTCCCTTTAAAGTTTCAGCAACTACTTTCTTTTTTTTT
TTTTTGAGATGGAGTCTCACTCTGTCAACCCAGGCTGGAGTGGGTTGGTGCAATCTTGGCTCACTGAAACC
TCTGCCTCTCGGCTCAAGCCATCTTCTCACCTCAGCATCCTCGGTAATTTAGTTGGGACTACTGGCGTG
CGCCACCATGCCCGGCTAATTTTCTGTATTTTGTGGAGAGACGGGGTTTACCATTGTTGCCAGGCTTG
TCTCAAACCTCGGCTCAAGTCAAGTCTCTGCTTGTATCTCCAAAGTGCTAGGATTACAGGCGTGAGC
CACCAACCTGGCCATGACTTTCAAATTTGTTTAAAGTAATCCCAATCTTTATTGCTCTCTCAAGTA
ATTAATGATAACACTTTCTTTAAAAAATAATGCTGTCACTAGGCTGGGTGCGGTGGCTCACATCTGTAA
TCCAGCACTTTGGGAAGCCGAGGCGGGTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGACCAAC
ACGGTGAAACCTTCTCTCAATAACAAAAATAGCCAGGTATGGTGGTGGGCACTGTAATTCACAGC
TACTTAGGAGGCTGAGGAAGGAGAACTCACTTGAACCCCGGAGGTTGGAGGTTGCATTGAGCCGAGATGGC
ACCATTGCACTCCAGCCTGGGCAACAAGAGCAAACTGTCTCAAAAAAATAAATAAATAAATAAATAA
ACAGACGGGGCATGGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCAGAGGCAGGTGGATCACCTG
AAGTCAGGATTTGAGACCAGCCTGGCCAACTGGCAAAACCCCACTCTACTAAATAACAATAAATAAT
AGCTGGGCACGGTGGCAGGTGCCTGTAATCTCATCTACTAGGGAAGCTGAAGCAGGGGAATCGCTGAAC
CTGGGAGACGGAGGTTGCAGTGAGCTGAGGTTGTGCCATTGCACTCCAGCCTGGGAGACAGAGCAAGACT
CCGTCTCAAAAAAATAAATAATATGTCACTAATCTCTAAGATCTCTGAATAACTCTCTCAGAAATTA
GAGTCCATACAGCTCTGATCTTTTCTCTTTTATGCTGCTTGTTTTTTCCAAGGCTTTTAGTGATGCAAA
TTATCATTACTTTTAACTTCCAGCTTTCTCTATGTCTTGGTTTTACACGACAAGAAGCCAGAACT
GAACCTGCTTACTCAGCTCCCGAGGTTGAAGGTGGCAAGAAGGTGGTAAGAACTCTAGACAGGCTAGGCC
TGGTGGCTCAGCCTATAATCTTAACTTTGGGAGGCCAAGACAGGAGGATCGCTTGAAGCCAGGAGTT
CGAGCTAGCCTTGGGGAACATAGTGAGACCTGTCTTACAAAAAATAAATAAATAAATAAATAAATAA
TGGTAGTGACACCTGTGGTCCAGCTACTCAGGAGGCCAAGTTGGGAGGATTGCTTGAAGCCAGGAGGT
GGAGGCTACAGTGAGCAATGATGGCACCACACTCCAACCTGGGCGACACAGTGAGACTCTGTCTCAAAAC
AAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
ACATTAATTTGTTTTTCTCTGTCATTTTCAATGGAACAGGATGATTACAAGAGTGCAGGGGAAAG
GTTGGGGAAAGAAATGTGACTTCTTTCACTTTTACATTATTGAAATGTTATTTAAATTTGATTCTATA
ACCATAATTAATCTTCAAACTTTTCACTTAATGATCTTAGCATTCAATTGATGGTCTTTGCTGAAATC
TTATTTCAAAGGCAAGGCATTTCAAAATGCTGATTTTAAATTTCTATCATTTCTTATACACTTATT
AGCTCACATTTTCTGTAATGAGTTTACCCTTATCAAGTGGGACTCTTGGTTAGCTGCTCTCTAAGCT
AATTTTCTGTATTCTCAAGCAGTTTCTCCATACTATCATTTCAATACCTCTGCTGTTCTAGTTTGCT
GTTTTGAGTATGCTCTTACTTATGTGATTGACTTTTTTTTTTGGAGATGGAGTTTCTCTCTCGTCGC

FIGURE 1, sheet 6 of 66

CCAGGCTGGAGTGCAATGGCACCATCTCTGCTCACTGCAACCTCCGCCTCCCAAGTTCAAGCAATTCTCC
TACCTCAGCTTCCCGAATAACTGGGATTACAGGCACCTGCCACCACACCCAGATAATTTTGTATTTTGA
GTAGAGACGGGGTTTACCATTGCTGGTTCAGGCTGGTCTTGAACCTCTGACCTCAGAGGATCCACCCGCCT
TGGCCCCACAAGGTGCTGGGATTCCAGGCGTGAGCCACAGTGCCTGGCCATGACTAATCTATTCCATTGA
GGGTCTTTTCTCTGAAAGTTTGTGCTATGACTTATTTCAAAGAAGGGAAATAGATGTCTCAGTAT
TAAATTTCAAACGGGAAGTTTAACTGTATATTGGCTTATTTAGGGTAAGAGTGAAGCTATCCTGGACAA
GAACTTTGACAGGACATACTATTCACTCTGAAGGACCAAAAAATGAGCAGAAAAATTTGGGATAAATGTC
AACAAGATTTGAACCTTAAAGAAAAGCAAGCATCGAGTTAGACAGACGTCCATATTCAATCAACTGGGAA
AATAAAAGTGCAGTCCCAACATCAGAATTTCTTGGTCAGTTGGTTATTGCGGGACAGCATTCTCTGCA
TGACAGTATTGTCTCTTACCAGCCACAGAGGAGGCTGTGAGAGAGAGGATTGGGAAATGGTGCAAAAT
GAGAAATCTTGGAAATCTGTAAGTATATAGATATAAAAGTTATTCTTTCCAGTTTGATTCTTTTATGATG
TAGATTTTAATATCAGTCAATTTAGGAAATCTGTGGCTCTGAATTATAGTTATAATTCTAGTTTACTA
TTTGAAGTAAAGGAGAGAGAGGCTGTTCATTATTATATTGGAAGTAGTGTAGCATGTTTATTAGAGTG
CAGAGCCCCAGCATGAAGCCTAGCTCTGCCATTTGCCAGCTGTGTGTCTTGGGCAGACTACTTATCC
TCCTGTGCCTCATTTTCATTGTGTAAGTAGGGGACGGTGTGTAGTTCCACCTCACAGAGTGGTGCAG
GGACCAATGGGTTAATACATGATAAATGCTTAGTTTAGTGAAGTTCAATAAATATCAAAATAGTGGTA
TGTGATGAAATGGTTTACATGATAACCTAAAATTAATTGCCAGTTTGTTTTAAATTTACTGGTCAAGTCT
ATCAAAATGATTGAATCAGCATGTTTAAAGTGGATATATCTCATTGTGTCCAGATCATTTTAGTATATTCA
TGACTCCTCATTAAATTTCAAAATGATAATAGGTACAGTTAGTCTCCATATCTGTGGATTCAACCAAG
TAAAAATAAAAAATTCATCACAACAAGGCATGGTGGCTCACATCTGTAGTCCCAGCACTTTGGGAGGCT
GAGCGGGTGGACCGCTTGAGGCCAGGAGTTTGAGACCAGCTGGCCAAACATGACAAAAACCCATCTCTA
CTAAAAATACAAAAATCAGCTGGGTGGTGGCTTGACATTGTAGTCCCAGCTACTCGGGAGGCTGAGG
GATGAGAATTGCTTGAACCCAGGAGGTGGAGGTGCAATGGGCCGACATCTCACCCTACACTCTAGCCC
GGGCAACAAATCAAGACTGTCTCTTTTTTTTTTTTTTTTGGAGACGAAGTCTCGCTCAGTCGCCAGGCTA
GAGCGGATGGCGCAATCTCGGCTCACTGCAAGCTCCGCCCTCAGCCATTCTCCTGCTCAG
CCTCCCAAGTAGCTGGGACTACAGGCCGCCACCACCGCTGGCTAATTTTTTGTATTTTAGTAGAGA
CGGGGTTTACCGTGTGTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCGCTCTCGGCTCCC
AAAGTGCTGGGATTACAAGCGTGAGCCACCGTGCCCGGCCAAGACTGTCTCAAAAAAAAAAAAAATTGCA
TCTGTACTGAACATGTACAGACATCTCTCTTTTTCATTATCTCTAAACACACAGAGTACAACTATTACA
TAACATTTACGTTATATTAGGTATTATAAAAGTCTCCCGAGACAGAGGTTGCAGTGAGCCGAGATCGC
GCCATTGCACTCCAGCCCGGGGAGCAGAGCGAGTCTCTCTCAAAAAAAAAAAAAAAATTGAGATGAT
TTAAAGTGACAGGAGGATGTGAATAGGTTAGATACAAGCACAATACCATTTTGTATCAAGACTTGAGT
ATTCAATAATTTTGGCATCTCTAGGAGGTTCTGACACCAAGTCTCCAGGGACGCTAGGGACGCGCTGATA
TGGCTTAGATTAGTGTGTAGTGAACCTGCTACACAGTAGCCTGTTTAGAGTTCCCCATTTTTAAAAA
TACTCTGTCTTTTTAAATTCATTATACAGCCTTATTTCTCAGTACTGACTAAAAATGTCTATTTTTTATA
TATCGAAGCTTTCTATTATTTTTTAAACCAATGTATACATGTCAAAATCCTAAAAATCGCCTGTATTAAT
CTACTTAGTAACATTAATGCCACTCCAATGTGGATATAAATAGAACTGACATAGTTTTGAAACTACGTA
GAAAGCATGGAGGCTGGGTGCGTAGGCTCACGCCCTGAATCCAGCACTTTGGGAGGCTAAGGTGGGCAG
ATCAGCTGAATTCAGGAGTTCGAGACAGCCTGACCAATATGGCAAAACCCGCTCTTACCAAAATACA
AAAATTAGCCTGGCATGGTGGCATGCACCTGTAGTGCCAGCTACTTGGGAGGCTGAGACAGGATAATTGC
TTGAACCTGGGAGCGGAGGTTACCGTGAGCGCAACGTGGCACCCTGCACTCCAGCCTGGGTGAAGAGC
GAGACTCTGTCTTAAGAAAGAAAGAAAGCGGGCGGGGGCGGGGGGAAGGGCAAGCATAGAGCAT
GAGGAAGTTTTTATGTCTTTTCTTACAGAGAACTAAAGCCTTTTCAAGAGAAATCCAGATGCTCACTA
AGTGACTAGAGCAGCTGCATCATCTTTAAGAAAGAGTGCTCAAGAAATCATCCCAAGCTGAAGAAAAAG
TATTGGAGAGAGTTTAAAGACCTTGAATGTCTAGAAAGAAATAATGAGATCAAGGACTTTTTCAAGAGAG
ATTAGACTTGGACAGGAAGAAAGTAAGAAATTTCTGAAGTATAAGCATTCTTTGATAATGAAATGATT
GCATTTTATTCATAACTTTAATCTTATCTAATGTTTGAAGCTGTTAATACGTTAATACTTTTCTCCACA
TTGGGAAAGGGGGGAAATTTGCTACAACTCTGAAAGCTTCCGATTTTATTTTATTTATTTATTTATTT
TTTTGAGAGAGATCTCGCTCTGTCCACAGACTGGAGTGAGTGACGCTATCTTGCTCACTGCAACCTC
TGCTCCTGGGTTCAAGCGATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACGCGCCACC
ATGCCAGCTAATTTTTGATTTTTTAGTAGAGACGAGTTTACCATTTTAGCCAGGATGGTCTCAATCT
CTTGACCTTATGATCCACCTGCCTCAGCCTCCCAAGTGCTGGGATTACAGGCATGAGCCACTGCCCTGG
CCTCTGATTTTATTTTTTAAAGCCTCTTCTCTCTCCGTATCTCCATGTCTCTTTTGTGTACTTATTGAT
GTTTGTGTGAGGGCATCTGTTTACATATATATCTCAATGTACTTTAAGGAGAGGATTAGAAGAAAAGGA
GCTCAAAGGAATAACTCTCTTTTTTCTTTTTTTCAGATGGAGTCTCACTCTGTCAACCCAGGGTGGAGT
GCAATGGTGTGATCTCGGCTCACTGCAACCTCCGCCTCCAGGTTCAAGCGATTTCCTGCCTCAGCCTC
CCAAGTAGCTGGGATTACAGGTGCTCACCACCCGCGGCTAATTTTGTATTTTTAGTAGAGACAAGGT
TTCACCATGTTGGCCAGTCTGGTCTCAAACCTCCTGACTGCAGGTGATCTGCCTGCCCTTGGCTTCCAAAG
TGCTGGGATTACATGTGTGAGCCACTGTGCCCGGCCAAAGGAATAACTCTCTAATGGGGAAATTTTAGGA
ATTGTGACAGGCAGATATAATGAGCATTGATGAGGGGCCATTGATGATGTCTCTCAATAATCACTGTATA
AGTCAATTTCTCTCTACTCTCTCTCTCCCTGAATCTGTAAAGGAAAGGCGAGTCTTAAAGTTGGATAG
AAATAGGTAGGTTGCAATACAATTTATTTTCAAGGAGATTCTCTATTTTACTACCTCTTCATAGAATTGCC
TATCATAGCCGGGACAGTGGCTCACACCTATAATCCTAGCATTTTGGGAGGCTGAGACAGGCGGATCAC
GAGGTCAAGGAGATTGAGACCATCTTGCCCAACATGGTGAACTCTGTCTCTACTAAAAATACAATAATTA
GCTGGATGTTGGTGCACACACCTATAATCCAGCTACTCTGGAGGCTGAGGCAGGAGAATTGCTGAACT
CAGGAGGCAGAAATTCAGTGAGCCAAGGTAGTGCCGCTACATTGCAGCCTGGTGACAGAGCAAGACTCC
ATCTCAAGAAAAGAAAAAAGAAAGAAATGCTATCATAACCAAAATACGTTATAGTATTTCTA
TAATTTCTGAGACTGAGTCTCACTCTCATCACCAGGCTGGAGTGAGTGAGGCGCAATCTCGGCTCACTGC
AACCTCCACCTCCAGGTTCCAATGATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGACTATAGGTGTGT
GCCACCACACCCAGCTAATTTTTGCAGTTTTTAGTAGAGATGAGGGTTTACCATGTTGGCCAGGCTGG

FIGURE 1, sheet 7 of 66

FIGURE 1, sheet 8 of 66

[illegible]

ATATATTTATGAGATGGAGTCTTGCTGTGTACCCAGGCTGGAGTGACGTAACTCTCGGCTCACT
GCAACCTCCGCTCTCCAGGTTCAAGCAATTCTCCTGTCTCAGCCTCCTGAGTAGCTGGGACTACAGGGGC
CTGCCACCACGCCCGGCTAATTTTTGTATTTTTAGTGGAGACGGGGTTTACCTTGTGGTCAGGCTGGT
CTCGAACTCCTGACCTCCGGTGATCCACCACTTCAGCCTCCCAAAGTGTGTGATTATAGGCATAAGCC
ACCGTGCCACGCTTAAATATTTGATTTTTAAAGGAAGCACTGTAATATTTGACATCTGTGAGGAAGTA
CATGGATACTAGCTTCAACATTACATCACCTTCTATTCTTTTGTATGACATACCTTTGTGATAGAACTG
CCCAAGGCTTCTCAGGATTTATAAATTTGTGCGGAGTGAACCTCAGTAGTTAGTGGTATCGCTACCAAA
GAAGCTGTGCTGCAAACTTGGGGAAGGAGGCTCTTCCCAGATTCTAGGATCCCTGGCTGCAATGTAAG
AACTTGCCTTATCCTCTCAATAATATCACAGCCTAGCAAAAGAGGAAAAGTGAGGGACACCTTGA
CCAGAGCCTCCACTTGCAGCCAGCCTGCTCAAGCTGTAAGAACCACCTTCTTATTCAGAATTTCCCCAG
AGCCACGGCCCAAGGTCATCTGCCTGCTGCAGCCTTAGCACACAGGAGCCTGGGCATGAAACAGGCAGA
CCCTCTCCTCCTTCCAGGACACCTTCTCTCAGGAAATGGAGGCCCTACCAGCTCCTACAGCCAAGCTCT
CCATGAAGCCCAAGGTGTTAAGGTGGGCCAGTTTCTGAAAGAGCCACTTTCTGAGCATATTAAGAAAAA
TCTCTTGTA AAAACAAAGAGGGCTTAGTGTAAATGCTCCTTATGAATTGTGTAGTAGGAACGATTGT
TCAATCATGGGCGAGTGCAAAACGTTAGCTGTGTTAACTCTGAGCAAAACAGGGGAGATCCTTCAAGGACC
TGAACACTGTTTCTAGAAAAGCTTTTAAATCATGTGTCCAAATCACTGCCACACTCTTCTTAAATGATA
AGAATTGGATTAGTTAAGCTTTAGATAAATGATTCTCAACCTTCAAGATGCTATGAAATGACCTAA
TTAAGGAATTTATTTTTCTAGGCCATCCAGAGATTCCAGTTTCACTTTGTGGTATGAGGCTGAAGTATG
GATATTTTTTTCAAAGCTCCTTAAGTATATAAATTGATAAAATTACTTTGGAAGACTGGCAGTGTACGAG
TTTTCTGTGTGCTGTAACAAATTATCATAAACTTTGTGGCTAAAACAGTACAAATTTATTTATCTTACA
GTTCTAGAGGTCCCATTTGGGCTAAAATTAAGTGTCAACAGGGTGTGTTCTTCTGGAAGGGGAAAAATC
CATTTGTTTGGCTTTTCCAACCTCTAGAGGTTACCCACATTCTTGCCCTCATTGCCCTCCTTCTCCATCTT
TAAACTAGTAGGAATTGATCAGGCCCATCCAGTCTTTCTCACAGCTACTGTTCTCTGGTCTTTTATCTG
ATTCTACAATTTCTCTGATTCTCCTTCTCTTGCCCTCCCTCTCTCTATTTTAAAGGTGCTTGTGATTAA
GTTGGGCCCACCTGGACAATCAGAAATGCTCTCCCTATTTTAAAGGCCACCTCTTGGCAAACTCTGTAAAC
TTAATTCTCTTTTGGCATGTAACTAATACTACTCATAGGTTCCAGGGATTAGGACAAGGATATTTGGGG
GACCCATTATTTGCTTGTCTGATGTAGCATCTACTAAAATGAATACATGCATGCCCTTATGAAGACGTA
GTCCCACTTCTACATACATGTTAGAAGCAATTTTTCAGTGCCACAAAATAAAGAAAATAGCACTCGAA
TATAAATTTTCTCAGCAAGGCAATTTTACTCTTTTCAAGAGGGTGCCCTCGTAGGTCTGGTTGCCACGAG
AGGACGCACAAACAAAGGAAAGCAGGGGGTTTTATTATCTCTAATGCAGCTTGTCCCTGTTACTGCGTCT
TGCCCTCATTGGCTGGAGTTGGACCACAGATCTAAGCTGAACCTGGTTGGCTAACTTGAAGAGTGCAGG
AATGCGGTTTTCAAGTGGGAAGGTGGGAAGATCAATTTTCTGGGAAAGCTGTTACAGCAGGGAGGGGT
GATTTCTTGGCTGTCTTGCTGAGCACAGCAGGATGGGAGGGGCTGATAGATTGGCAGGCAAGATTACTG
TAGACAAAGAACAGAGAAATAAGACTTCCAGGACAGACAGTACAAGGAAGTAAAGACCTCTTGGAGAAGAA
TACCTTGTTTGTAACAAAGTGAACCTCTTTGAAGAGGAACTGTCTAAACTACTTGTTTTTAACATATATA
ACAGAAATGTGTACATATCTTTTTTAAATTTTAAATTTTATTTTGGAGACAGAGTTTCGCTC
TTGTTGCCCAGGCTGGAGTGTAATGACAGATCTTGGCTTACTGCAACCTCTGCCCTTGGGTTCAAGTG
ATTTCTCCTGCCTCAGCCTCCAGAGTAGCTGGTATTACAGGCATGCGCCACCACCTGGCTTATTTTTTG
TATTTTTAGTAGAGACAGGGTTTCTCCATGCTGGTCCGCTGATTTCTCGAACTCCCGAACTCAGGTGAT
CTGCCCCCTCAGCCTCCCAAAGTGCTGGGATTACAGACGTGAGCTACCTCGCTGGCCAGAAATGTGTG
CATATTTCTATACAAAGACATTTACAATATTACTAACGGTGGCATTGTTTATTATTGCGGAACTGGAAA
CTACCCAAATGAACAAATGGTGGCTTAAGTATGGCAATCAGATCCATTAGTTAAGCATTCGATCTCATTG
GGGTTGGACAGGGAGAGTCAACTGGAGTGCTGAATTTTCTGAGGCCAAACTAGAAAGTAACTCTAGGA
GCTGGGCGTGGTGGCTCATGCCTGTTAATCCACAGCACTTTGGGAGGCCAAGGCGGGCAGATCACCTGAGG
TCGGGAGTTGGAGACCAGCCTGACCAACATGGAGAAACCCGCTCTACTAAAATACAAATTAGCCAG
GCGTGGTGGCGCATGCCTGTAAATCTCAGCAACCTGGGAAGCTGAGGCAGGAGAATCGCTTGAACCTGGG
AGGCGGAGGTTGCCGTGAGCCGAGATCGTGCTATTGCACTCCAGCTGGGCAACAAGAGTGAACTCTGTG
TCAAAACA
AAATAGGGGAGAGCATGGAGTTCCACTAATAAATGGTAATACACTAACAGTGAGAGAAAGCAATGGGCTT
GTAAGGAGAACTTGGTTCTTGTGTAACATCCGCTCACTAATCAGTCTTGCAACCTTGTCAAGTCTTGTG
ACCTCACTAACTCGAATTTCTTTATCTCAAACTAGAAAGAAATCGTGGCCTGGATTCTGAATTATG
GGGTTTCAGGCAGCCACAAGTAGGCTGGCAGAAATGTTTCTGGTCAATAAAGGAGTCTGTTGCCCCAG
AACAGGAGCCAGGGGCACAGCCAACAGTAAATTTCTGCTTGGGGCCCCATTCTCAGCTGCAAGGACTT
GTCTTCAGGTGTGGCAGGCTGAGATCTGCCTCCTTGTTCGCCGCTATCCGCTGGGCCCCCTCCCTGCA
AGTGTTCGCTTCCATACAGAGGGACCATTAGGGCCTGTACATCGTACTTCAGGTCCCTCCTGTGGTCCA
ACATTTCCCTAGGGGCAAGTGCAACTGTTTATGCGGAGACCACTTTCCGTGACGCCAACTGAAGGTGCA
CGTTCACCCGAACCTGGTGTCTTACAACAGCTCGGAGGCGCGCTACCAGCCTTGGCCCCCTCTGAATA
TGAAGCGCGCGCGAGGCTCTTAAGGAAAAGGAAGTAAGGGCGGGGACGAGGGAGACGACTTCAACGT
AGGGAGTTGCTGCTGCTACTGCGGCGGAGAGGACAAGGAAAACGTGGAGGAAGTCGGTGATGACTG
GCTGAAGGGGATGATTGGCGGGTGAAGAGAGCCGGGCCAGAAAGCACCTTTGCATGTGGCTAGAAACCCG
CCTGAAGAGGGGCTGAACCCACGCCGAACCCGCCGATTCGAGCCAATCAGGAGAGGAGCGGGTGG
GGGGGCGGACGGGGCGGCTCGGGGGGTGGACGGGGCGGTCTGCGGGGAGGGGGGGCGGTCTGCGGGG
AGGGGGACGGGGCGGCTCGCGGGAGGGAGGACAGTTTCGCGGGTTCGGGCGGCGAGTCTCCCGGATGCT
CCTCAGCTCTGGGGACCGGTCAGAAAGTGTGAGGGCGCCCGGCTTCCAGGCAGTAATGGGCGGGTCCCT
GCGCGGGAGCGTGGCGGGCGTGGACTCTACAGCAGATGTGAACTGGAGAGCTTGGCGCGCTTCCGAC
TTTGTACACACCTGCGCGCGGAGACTGGGGTGGGGCCCCCTCCGCTTCTGCTCTGGAGTGCCTGGGTCT
GGGCCCAGCACCGCGCTTTTGAATCTCCTCAGCTGAATCTGACGCTCAGCAGTGGGTGAAGCGCAGCCC
CCTGTTTCAGGCCCTGCGAGCTGGAAGGAGTGTGACAGCTGGAGCGCGGTGGCCCCCTCTGTGTTGGG
GTCACCCCGGGGTTGCCAGGGCTCAGGGAGGGTCTAGTCTGGATTGTCACCCGACGCTCCCAACCC
CCAGCAGGTCTGGGGTTGGAGAATCCACGGGGCTTCAAGCTAGATGCCAGTTAACTGTCGAGAGGGG
ACGCTCCCTCCTCGTAGGCGTCCACACTGGAGAAGGAATAAGATGGGCGATTGCCTGGGAAGCCTGACAG

FIGURE 1, sheet 10 of 66

GGCGCGGCGAGCTGGGATGCTGGAGAGGACTGGCCCCCTTGAGTTACTGAGTCCGATGAATGTGCTTGCTC
TGCTGGAGGAACCGCGCTCAGGTTACAGTCATCCCAATATGGTTCTGAAGGTGCGTGGTTTCAGGTCAGTT
AGGACTTGACCAGATACCGGGTTTCTTTTACAAGCCGTTTCTGACGGTGGCCTGTTTCACTACTGGCAG
AGCTCATGTAAAACAGACTTTTAAAAAATTTGGGGGGCTTTAGTATTTTTTCTTATCCTATATCTCT
GAGGATATTTTATAGTAGTCCACATATGGAATTAGATAATCTCTTTTTTTGTTGATTAAACAGTTTATC
AAGTATAATGTACATACCATAACGTTACCCATTTAATGGATTCAATGATTTTTTAGCATATTTACAGAG
TGGTGCACCCATCAGCATAATAGAATTAAGGAATCGTGATTTTTTTTTTCTGGTAATTGCTTTTACAGTT
CTCAAAGTTTGCACAAGCGGATATTTAGAGGTACAGTGAATATAAGAGCTTCTGAAAATGTCCACTTA
AGTTGTTTTTATACCTGAGCAAGTGAAATTAAGAAGGGAATTGAAGCAAAATATCTGGTAAGTTGAGGG
AGTGAACCTTTTGTGCTTGTGAATACCAAGTAGATATTGACCATTCAACTGGTTTTTATGCTGAGGAAA
TGCATAAACCCCATTTTACAGATGATGAAATCGACTTTGAAGGATAAGTTGCCTACAGCTGCATACCTGT
GCCTGGGCTAGGCCCCAAACCCAGATGCTTTATCTCTCAATTTGTTACCCTTGCTACCTCAACAGCTTGG
TTTTCAACCATGGTACTGATGAGTATGAACAGTACAAGCCATTCTTTACTGAGCAAAATAATTATTGAGT
GCCACTCTGTGCCAAGAACACTGCTATAGGTGCTAGAGATATTATTGAATCAGATACCGTAGTGAACGTG
TCCTGCCCTCAGCTCATCTTCTGGTGGGGAGGACAATGATCAAGTAAAGAAAATATATAGTTTTAGAGATT
CATCTATTTTTTAAATAGGTAAATTAAGGGCAAGGAATGGCAGTGGGAGGCAGAATCTGATGAGAAA
ATCTGAATGAAGAGAGGAAGTTAGGATATAAGAAAGAAAGCAAGGGTTGATTGAGCAAGCGCAAAAAT
AGAGTTGTGATTACTGAATTGAAATAAGGTGATACTGGAAGGACCAGGTTTTGGGGTACAATCATAAG
TTTGGCTTTAAATGTTTTTAAATACCTTGCCCTTTAGACATCCAAGTGGAGATATGGCATTTAAATTCAT
GAGATTGGATGAGATCCCAACGAAGAACAGGTTTAGGTGGAGACAACCAATACCGATGCCCTAGGACAC
TGCAGTGTTCATGAAAGGATGAGAAGGAACAGGAGGGAAGATTGAAAAGAAAGAGTCCAGTGTGT
TATGAGGAAAACCCCAAGAGCATGCTGCCTTACAAGACAGGTGAAAAATGTGTTCTGTGAAAGAAAGAGT
AATTAACGTAAATGTACAGACTGATCAATAAAATGAAGACTGAGAATGGCCTGTTTGTAAAGGTAAT
AAAAATACATAAAATCTTATGATAGAAATATTTATACATAAAGTTAGTAAGGAACAGTGTCTACTCCT
TTTGTAGAAGTGAATTTTTTCAACCATTTTGAAGGGCAGTTTGATATTATCTACAACATAAAATTTGTG
TTTCCATTGATAATTTACCTGTGGAAGTTTATCTTACAAAAATATTAATATGTGCACACAAATATGTGT
AAAAGTGTTTATCACAGCTTGTACACATATATATTTATAAATGTGTGTCCAGGAACAGTGGCTTATGCC
TGTAATCCCAAGCACTCTGGGAGGCGGAGGTGGATGGATCACCTGAGGTGAGGAGTTCGAGCCAGCCTGG
CCAACATGGCGAAACCCGCTCTCTATTAATAACACACACACACACACACACACACACACACACACAC
CACACACACACAAATTTAGCTGGCGGTGGCGGACGCTGTAATCCAGCTACTTGAAGGCTGAGGCA
GGAGAATCACTTGAACCGGGAGGTGGAGTTGCAGTAAGCCGAGATCACGCCACTGTACTTCTAGCCTG
GGTTACAGAGTGAGACTTCATCTCAAAAAAAGGTGTTTTATCACAGCATTGTTT
ACATTTGTAAAAAGGTACAAGTTTTCATCAAGATGGATGCAGTTGTTAAAGGGAAGATATAAATGTGTAG
ATATGGGAGATAGCTGCTATAGACGGAATTTGTGTCCCTGAACCTTCATATGTTGAAGCCCTTACCCTGA
ATGTGGTGGTATTTGGAGGCAGGCGCTTTGGGAGGTAGTTGATTTAGATGAGGTACGCAGATGGGGCC
CCCAGATGGGAGTAGTGCTCTATACAAAGAAGAGGGAGTCCAGAGCTTCTTCTGTGTCAGTCATTAA
GGACATGGTGAGAAGGCAGCCATCTGTAATTAAGGAAGAGTCTCACCAGGAAGTGAAGTGGCTGCACC
TTGATCTTGGTCTTTCCAGGTTCCACAGCCATGAGATATGAATGTCTGTTTTTAAAGCCACTCAGTCTGT
GGTATTAATATTTTGTATAGCAGCCCAAGTTAAGACAGATAGCTTTGTTAAATGATAAAGTCAGGTTAT
CTAATAGAAATGCATAGTATAACCCATTTATCTTAATGTATCACAGGAGGCTTTCTAGTCACACTAACA
AAAGTTACTCCTTTGTGTGCTTCCCTGATCACTGTTACATTATCTATGTACAGCACTTATTATCTAAA
ATATTTTCAATTAATTTTATACATGTTTACTGGCTTGTACAAATAGAAGGTAAGCTCTGTAAGGGGTTTG
CCTCTCTTGTATATCCCAAGTCTAGGTATATATTACTTTAGGAAAAACCATTTATTTATAAAAATAT
TTTAGGAAAAAACCTACACAAACAGTATCTCTGTAGTGGTTTTAAATAAGACAACAGGCTGGGCGTGG
TAGCTCATGCTTGTAAATCCCAAGCACTTTGGGTGGCCGAGGCGGATCACCTGAGGTGAGGAGTTTG
AGACAGCTTGGCCCAACATGGTGAAACCCGCTCTCTACTAAAAATACAAAGTTAGCCTGGCCTGGCGTC
ACACGCTTTAATCTGAGTCACTTTGGGAGGCCAAGGCAGGAGAATCACTTGAACCCAGGAGGCAGAAAGT
GCAGTGAGCTGAGATCGCACCATTTGCACCGTAGTCTGGGCAACAAGAGCAATGTCTCAAAAAATAAAA
TAAGACCACAATTTCTTTGATAGTGTTCCTTCCAAAGGTGGTGGCTAATCTCTCTCTTGAATGTAG
CTGGATTTAGTGACTTTGCTTCTATGTGTAGAATATGGCCAATGTGGAGGTATGTCAATAGGTGATGAAT
TCCTTTTGTCTCTCTCTTCGATCATTCACTCTGAAGTAAAGCAGCTGCCTTGTGATGAGAACATATCA
AACAGTGCTGTGGAAGGCACATTTGGTGAGAAATAGGCCTACTCCCAACAGCCAGGGAAGAACTGAAGC
CTTCTGTGACATGTGAATGAGCCACCTGAGAAATGTATTTTCATCTCAGTCAATCAGTGTCTCAAAAG
AGGCGGTTAGCTGGATCCCTCAACAAAGCCACTTTTGGGTCTCTTTCAGATAATACAGGTTTGTCTTGTGA
ATCTACTAGGTTTGGTGGTAGAGTGAAGAGTGAACACACTCCCTTTAGGACACATCATAAAGCAAAA
CAAGTATGGCCCAAGTAGCATACACTTAATGTTCTTTTCTACTAGGATTTACAGAATTCATTGTTGGTA
CAATTTACTCTTTTAAAAAATAATTTTTATGTTGATCAGAATAAAATACGGTATTTCAAGCTATATGTGC
TAACCTGATTTTATTTTAAAAATGTATTGAACACTGGAACACACAGATTGAAAGATTGACCTTAATAT
ATATTTATATATAAAATATGATTTTGAATAATGAACCTTTAAATTTAAAAATTATAAATAATTTTAAAA
TGCCTTCTATTTAGGTAAAGAACTTTCAAAACAACTTCTCATATGATATGGTTTGTCTGTGTCCTCCACC
CAAATCTCATCTTGAATTTAGTCTCCCAATTTCCACATGTTGTGGGAGGGACCCAGTGGGAGATAATT
GAATCATGGGGGGTGGTTTCTCCTGTTTCTCGTGTAGTGAATAAGTCTCATGGGATGGTTTTATT
AGGGATTTCCCTCTTGTGTTGGCTCTCATTTACCTTGCCCTGTTGCCATGTAAGATGTATGTTTACCTG
CCATGATTTGTGAGGCTCCCGAGCCATGTGGAACGTGAGTCCATTAACTTTTTATTATAAATTACCC
AGTCTTGGGCTGCTTTATCAGCAGTGTGAAATGGACTAATACATCATAAAGAAATTTCAATTGCAAAA
AGTTGAAGTCTGAACATAAAGCTACAAAGAAAATAATGTTTAATAGCCATCCAGATAGTGTCCCTGAA
ATACGATGTCAAGGATCTAGAGGAACATATTGTATCTTTAACCAGAATTAGTCTGAAAAACAAGTATTC
AGAGTCTTAAAGAGGCAAGCAGGACTTAACGGAACGAATTATAAACTAAGGTAGAAAATCTAGTTTA
TTTTTGAACATGTCTCTCATATAAGCTCACATATAGCATATGAGCTCCATGCTCCTGATTGATCAGTT
TAATTTTATGGAATTTCACTTATTGCTGGTATAACATTATTACAATTTTTCATTATAAGACTGTGATT
ATCAAGGTGAGGATATCAAGACCAACCTGGCTAACACGGTGAACCCCATCTCTACTAAAAAATACAAA

FIGURE 1, sheet 11 of 66

AATTAGCTGGGCGTGGTGGTGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGACAATGGCGT
GAACCCAGGAGGCGAGAGCTTGCAGTGAGCTGAGATCGCGCCACTGCCCTACCCCTCCAGCCTGGGCGACAG
AGCGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAGATTTGTGATTATCTGGTCAATGTGTGTAGAGAGGAGA
TGTTTGATCATATACGGTACCCTTTTTTTTTTTTTTTTGTGATGGAGTCTCACTCTGTCCCCCAGGCTGGAG
TGCAGTGGTGGGATCTCCGCTCACTGCAAGCTCCGCTCCTGGGTTTATGTCTATTCTCTGCCTTAGCCT
CCCGAGTAGCTGGGACTACAGGTGCCACCAGCACACCTGGCTAATTTTTTGTGTTTTTAGTAGAGATGG
GGTTTACCCTGTTAGCCAGGATGGTCTCGATCTCTGACCTCGTGATCCACCCACCTCGGCTCCCAAA
GTGCTGGGATTACAGGCGTGAGCCACCGTGCCTGGTTACAGTACCCTTTTTGATAGCAGGAGAAAAGATG
GTCATTAATGTATCCTCTTATAATAAGAGTAATATTTAAGAAAGCCACAAAATATGAAAAGCTTTCTAT
CCAGATTACATTCTGTTGTAGACCATCTTATTCTGTTATTTACTGTACGTTAGACCAATTGATACCTT
TCATTTTCTCTGGGGTTTGCAATTTTCGAGATCACTTTTAAAAGGAAAACATAGGAGCCTGAAAACAGAAG
TGGGAAACAAATATTTACTCAAATAAGAGCTAACTCAGTAGCCAGCAACAAGAGATCAAGGTGTGTG
TGTGTTTTCTCTGTGTCAGATATTTGTCTGAAATAAGATGGCTGAAAAGTCAAGTGAAAAGTAATTA
AAGCAATTTCATCAACCATAGCCATAGCTGGATGTATAATAGCTGATCAGGCATAGCAAACTCTTCAGGAT
AATTTCAATTTTAAAAATTTATGTCTTTGTCTTTTCATCTTCTAAGCACAGTTTCAAAATAAGACTACAG
AGTGAGGCTCTAGGGACCATCAGTTTTTGTCTTTAGTGCTAAAATGGTGGCTGAGTGACACACCATGATT
TTTTTCTCAATATTTTCATCTTCTACCAGTGTGGAAAAGGGAGAGAAGGACTCTCTGAAGGAGACTGT
GCAAAGGATTTCTTTTTTTTTTTTTTTTTTTTTTGTAGATGGAGTCTCACTCTGTTGCCCGGCTGGAGTGC
AATGGCATGATCTCGGCTCATGCAACCTCCACCTCCTGGTTCAAGGGATTCTCTGCTTAGCCTCTTT
AGTAGCTGGGATTACAGGCGGCCACCCAGCTCGGCTAATTTCTGTATTTTAGTAGAGAAAGGATGTC
ACCATGTTGGTCAGGCGAGTCTGCAACTCCTGACCTCGTGATCTGCCACCTCGGCTCCGAAAGTGCTG
GGATTACAGCGTGAGCCACTGGGCGCGGCCCAAGGATCTTTTACCATATGCTGGTTCAGGCCCT
TTTTCTATCCTCTCTGTGAGTGTGGACTGAGTTGACTGAGATATTAGGCCAGGACTCTTGCTTGT
CTATAGTTATTAGAAAAGTGTGTCAAAATATCCATCACTGATTAAGGATTGTCTGTTTATTAGTCT
ATCAACATTTATTTTTAACTTTGAAGCTATTGTCATACAATTGAGGATTTTATCTTTCTATTGAATT
GCCCTTTTATCGTTATGAAATCTCACTATTTCATGTAATACTTTTTGCCCTATAGTCTAGGTTGTCTG
ATATTAACATAGCTAGATAATATTTCTTAGATGTCATGGTATGTATTTTCCATTTTTCATTTTCAATCT
TTCTATGTGATTAAGTATGTCTTTTGTAAACAGCATATAGTTTGTTTTTTAATCTAGTCTTATAATCT
TTGCTTTTAAATGGAATGTTTAGGCTATTACATTAAATTTCTGATATTGTTGGATTAAAGTCCACCAT
TGCTACTTACTGTGTTTTTTTTCTCTCTGGTCTTTGTTCTTGAATAATTAGTTTGTTTTTTGTATTGT
TGATTTTTTTTTTTTTTTTGTCAAGATGGAGTCTCTCTGTGACCCAGGCTGGAACGAGTGGTATGATC
TCGGCTAATGCAACCTCAGCTGCCAGGTTCAAGCAATTTCTGCTCAGCCTCCGAGTAGCTGGGA
TTACAGGTGCTGCTGCCATGATGATTAATTTATGTGTTAACTTAGCTGGGCTGTGTTGCCAGATAGT
TGGTTAAACATTATTTCTGGATGTTCTGTGAAGATGTTTTGGATGAGGTTAAACATTAGATCGGTGGAC
TTTGAGTAAAGCAGATTACCTTTCATAATTTGGGTGGGCTCATCCAATCAGTTGAACATCTGAAGAGAC
CAAAAGACTGACCTTCTGCAAGCAAGAAAAATTTCTGCCAACAGACAGCCATTGGACTTGAACCTCAACA
TTGACTCTTCAGTCTATTGGCCACCTTGCAAAATTTGGACTTGCCAGTAAGTGTCTGAAATCTAGTGAG
GCAATTTCTTTCTTTTTTTTTTTTTTTTGTGAGATGGAGTTTCGCTCTTGTGTCCAGGCTGGAGTGCAGTGG
TGCGATCTCAGCTCACCCTAACCCTGCTGCCCTCCAGGTTCAAGTATTCTTCTGCTCAGCCTCCTGAGTA
GCTGGGATTACAGGCATGTGCCACCAGCCTGGCTACTTTTGTATTTTAGTAGAGATGGGGTTTCTCCA
TATTGGTCAGGCTGGTCTCAAATTTCCAAACTCAGGTGATCCACCCGCTTGCCCTCCCAAGGTGCTGGG
ATTACAGGTGTGAGCCACAGTGCCAGCCTAATTTCTTTCTTTCTTTCTTTTTTTTGTAGACAGAGTT
TTGCTCTTTTTGACCAGAAAGGAGTGCAATGTGGCAGGATGTTGGCTCACTGCAACCTCCACCTCCTGGC
CTCTCTAGTAGCTGGGATTACAGGCGCTGCCACCAGCCAGCTAATTTTGTATTTTAGTAGAGATG
GGGTTTCCCATGTTGGCCAGGCTGGTCTCAAACCTCCTGAAATTACGTGATCGCCCGCTTGCCCTCCC
AAAGTGTGGGATTACAGGCGTGAGCCACCATGCTAGCCGGGTAGTTTATCTTGACTTGACTTCAGGCT
CACCAATCCTTTTGGCTGCAATTTACGATAGAAAAGGACATAAAAACTTTAAATTAGCCTTAGAATAA
AGAGATGTTATCATTTCCCTAGCAATTAGTATTTCAAAGCAAGATCCAAATATGTAATTAGTCATTTATGTA
TCTAAGCTGTTTGTATGTATGATACAAAGTTTACATACAAATTTCTTCTTTCTTTCTTTTTTTTTT
GATAGAGGCGAGGTTTACGACATTGCCAGGCTGGTCTTGAGCTCAAGTATCCATCTGCCTTGGCCTC
CCAAAGTGTGAGATTACAGGCATGAGCCACAGTGCCTGGCCCAATTTATTGTAGTTATTTCCAATTCCT
TTCCCCCTTCTCATATCCCAATTAAAGAAATTCACCTCAGGAATTGTTGTAGTAGAAGTCTTTAGTCTGT
GTGCTACGGTTTGGATACTGTTGTTTGCCTAAGTCTCATGTTGGAATTTGATCCTAATGTTGAAGGTGG
AGCCTGGTGGGAAGTGTGTTGGGTTGTTAAGGCAGATCCCTTATGAATGGTGTGGTGGCCTTCTAGAGGA
GTAAGTTCGTTCTCACTCTTGGTTCCCAAGATCTCGTTGTTGTAAGATCCTTGTAATTACCCCTCCT
CTCTCTCTTGCCTTCTCTTTACCATGTGATCTACACACAGTATCATAAGGCATCTTTCTGATCCTTT
AGTGTTCACTCTCCAGTACCTTTAATATTTGCCTTCAAATTTCTCAAATTTCTTTATTTACTTCCATTTT
TCTCCTACAATAATTGTAGGCGTACTTAAAGTAGAATTACAATATAAATAATATTTTAAATATCTACAA
CTAATACTAAAGGGTTACTTTATTTTAAATTTTATTTTAAATAAGAAATTTAAATATCTGCAAC
TAATATCAGAGCCAAGGGCTACTTTCTTTGAAATACAAAGAGTCTTTAGAGTCAAGTGTGTATGTTTC
AATCTGGGATCTACCTCTTATATTGTAGGTTTAGACAAATGCTAAATATTTCTTGTCCAGTTTCTCA
TCTACAAATGAAAAAATTAGCTTCCCTTTGCTGTCTGCTTGGCTTGGTGTAGTAGAAGCTTCTGAGGCTC
AAAACAGATGTTGGTGCCATGCTTCTAGTACAGTCTGCAGAACTGTGAGCCAAATAAACCTCTTTTCTTT
ATAAATTAAGTCAAGCTCAAGTATTCCTTATAGCAACACAAATGGACTGAGATACCGTGTGTGATGCTC
AATCCTTATAATATTCTACTACCCAGGAGATATGCTCTCCAAATGTCTTCTTAAAGGATGGTT
TCTGAAATGACACCTCTTGGGACTATTGGAATTACTGAACAGCTGTTTTTATTAGAAATCTTTTTTTTT
TTTTGAGACAGGCTCTGCTCTGTGCGCCATGCTGGAGTGCAGTGGTGAATTTCAAGTCACTGCAACCT
CTGCTCCAGGTTCAAGTATTTCTCTGTCTTGGCTCCTGAGTACCTGGGACTACAGGTGTGCAACAC
CACACCCAGCTAATTTTTGTGTTTTTAGTAGAGATGGGTTTATTATTTATTTTGTGAGACGAAG
TCTCGTTGTGTCAACCAAGCTGGAGTGCAGTGGCTGATCTCGGCTCACTGCAACCTCCACCTCCAGGT
TCAAGTGATTCTCTGCTCAGCCTCCTGAGTAACTGGGACTACAGGTGCACACCACTATGCTGGCTAA

FIGURE 1, sheet 12 of 66

FIGURE 1, sheet 13 of 66

TAGCTCTTCCTTTAATAACTGTATAATATCTATAGTATGTCATGTATCTTAATTTATTCAACCATTTCTC
 TTTTGAGGGATGATATAATTATTTCTCTTTTGGTCACTACAAATAATGTGAAAATAAGTATCTTTCAA
 CTTATATCCTTCCACACTGGTGCTTTTGTGTCTAGGGGATTAATTGACAAATATGAGCTGATAGGGTCAC
 AGTGGCTATTTTAAATCTAATAGCCATTGTGAGATTACTATTTGCAAAAGGATAGAAGCAGTTCATTTA
 AGAGTAAATCATTTCTCTTTACATCCAGCTAGCATTGAATGCTGTCATTTCTTTTGTGTAGTTGGGT
 AAAAAAGAAACAAAAACAAGGTACCTCATTATTATTGAATTTACATTTCTTGACTACTAGTGAAGA
 TAAGGATCTTTTTTTTTTTTTTTTTTCTTTCTGTGGAGATAAGGTCTTACTATGTTACCCAGACTGGT
 CTCAAACCCCTGGATCAAGCTATCTCTCTTTCTCAGCCTCCCAAAGGGCTGAAATTACAGGTGTGAGTCA
 TTGCATTAGCCAGTAAGCATCCCTCTTCTTTAAAAAAATAATTTCAAGGCCAGGTGTCAGTGGCACATGCC
 TGAATCCCAGCACTTTGGGAGGTCAAGGTGGGTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGG
 CCAAGATGGCAAACCTGTCTCTACCAAAATACAAAATTAGCTGGGCATGGTGGTGGGTACCTGTAA
 TCCCAGCTACTCGGGAGCATGAGGCAGGAGAATGGCTTGAACCCAGGAGCGGAGGTTGCAGTGAGTGA
 GATCATGCTATTGTCATCCAGCCTGGGTGACAAGAGCAAACTCTGTCTCAAAATAATAATAAATTT
 TTTATTTTATTATAGATTAAGGGGTACATGTGAGGTTTGTACATGGGCATAATGCGTGATGCTGAGG
 TTTGGGTTACGTCAACAGGTAATGAGCTTAGTACCAATAGGTGATTTTGCATCCCATGCCCCCTCTCTC
 CCATGCTGCTGAGTCCCAAGTGTCTATTGTTCCCACTTTATGTTTATGTGATTCAATGTTTAGCTCCC
 ACTTATAAGTGAGAACATGTGGTATTGGCTTTCTGTCTTGTGTTAATCTGCTTAGGATAATGGCTGCC
 AGTTCCTATCTATGTTGTGCAAGGATGTGATCTCATTCTTTTAAATGGCTGGTAAGCATCTTCATATAT
 GCCTGTTGACCACTGGGCTTTTCTTTTCTACAAATTGCCCTCTTCTCCCATAAATTGGATCTTAGGTGC
 AGAAGATTGTGCTAATCAAATTTCTTAAATAGTGTCTGTCTATTGGGGACATAATGGTCCATCTCTATTT
 AATTTTATTGTTTTTGGTTCATTCCCCTCCATTCCTTATGCCCATAGGTAGCCTCACTTAAATGTG
 TTTATGCTCATCATTTTGTGTTTGTGATTAAAAATCATTATTGGGATATTTACATGCCATAAAATTCAC
 TCATTTAAAGTCTACAATTCAATGATTTTGTAGTAAGTAAATAAGTGTGCAAAATGCCACCACAATCCAG
 GTTTAGAACATTTCCATCACCACAAAAGATTTTTTTTTTTTTTGTCTCTAGACAATTAATGCCCTCTT
 CCATCACTAGTGCCGGGCAACCACCTGCTTTCTGTGTGATACATTTTCTTTTGGACATTTT
 ATAGAAATAAATAACTTTAATATGTAGTCTTTTGCATCTAGTTTTTAAATTAGCATTGTTTTGAGGTC
 CATCTATGTTGTAGCATTATCAGTATTGTGTTCTTTTATTTAATGTTATTCTATTGTGTGGATAT
 GCCCATTTAAAAATAATACTTTATTTTGGAGCAATTATAGGGTTACAGAAAAATGACTATAAAGTA
 CAGAGATCCCATAACTTCTTCCCATCTTCCAGTAACAAATTGCATTAGTGTGGTAAATTTGTGTACA
 ATTGAGTTAACAATTAATACATATTATTATTATTAGAGCGGAGTTTCGCTCTTGTACCTAGGC
 TGGAGTGCAATGGCATGATCTCAGCTCACTGCAACCTCCGCTCCTGGGTTCAAAAGATTCTCCTGCCTC
 AGCCTCCTGAGTAGCTGGGATTACACACATGCACCACCACACCCGACTAATTTGTACTTTTTTAGTAG
 AGACAGGATTTACCATGTTGGTCAGGCTGGTCTTGAACCTGCTGACCTCAGGTGATCCGCTGCCCTCAGC
 CTCCCAAAGTGTGGGATTACAGGCATGAGTCACTGCGCCAGCCTGATACATTATTATACTAAAGTC
 CGGGGTTTACATTAGGATTCATTCTGTAATGTACATTCTATGGGTTTGAAGGTGTATAATTACAGTA
 TCCATCATTTACATCATACAGAAATGGTTTCACTGCCCTAAAAATGTCCTGTGTTCCATCTGTTCACTC
 CTTCTCCTCCTGCAAACTCTGGCAACCACAACTTTTTTTTTTTGAGATGGATGTCTCGCTATGTTGCC
 CAGGCTTATCTCAAACCTCCTGGGCTAAAGCAATTCTCCTGCCTTAGCCTCCTGAGTAGCTGGGACTACAG
 GTGTATGCCACCATGCCCGCTTGATCTTTTACTACCTCCGTAGTTTTGTCTTTCCAGAATGTCTGTGT
 ATTTGGAATCATACAGATAAACCCTTTTCAAGTTGGCTCTTTCACTTAGTAATAATGCATTAAAGTTTCT
 TCCATGTCTTTTGGTGGCTTAATAGCTCATTGCTTTTTATTGCAATGTGAATAAAAGCATTTTTTTTTT
 GCAAAATAATTTCTGTGTGTCAGACTTACTACATTTTAGCTTTCCATTACCTAATGGTAAATCTTCGTT
 GCTTCCAATTTTTGACAATTATAAATAAGCTGCTATAAGCATTCAAGTGCAGGTTTTTATGTGGACATA
 AATTTTCACTTCACCTGGGTAAAAACCAAGGAGTACTATTCTGAGTCTTATTGTAAGAATATGTTTAGT
 TTTGTTAGAACTGCCAACTGTTTTACAAAATGGCTGTCCATTTTGCATTTCCATCAGCAATGAATGA
 GAGCTATTGCTGTGCTCACTCTCACATCCTCACCAGCATTGGTGTGTGTCAGTGTCTGGATTTTAGCCATT
 GAATAGGTGTGTAGTGGTATCTCATCATTTGTTTTAATTGCAGTTCCTAATGACATATGATGTTGAACAT
 CTTTTCATATGCTTATTTGCCATCTGTATATCTCTTTGATGAGAATTTTGTTCAGAACTTTTGCCATT
 TTTAAATTGAGTCTTTATTTTCTAGTTGTTGAATTTTAAATTTTATTGTTATATTTTGGGATAACAAATC
 CTTTATCAGATATATCTTTTGCACAATATCTCCAGTCTGTGGCTTGTCTTTTTTATTTTCTTAATAG
 TCTCTATCACAGGGCATACTTTTACTTTTAAATGAAGTCCAACCTGTGAGTTTTTTTTTTCATGAATCTT
 GCTTTTCTATTGTATCCAAAAATCATCTCTAAACCTAGGTCACTTACATTTTCTCTACGTTGTCTCT
 AGGAGTTTTATAGTTTTGTACTTTACATTTAGGTCTGTGATGATTTTTGAGTTAGTTTTTGTGAAGGTGG
 TATGAGGTCTGTGCTGGATTCAATTTTGTGTTAATGTGGATATGAGTTGTATGAGTTGTCTAGTACC
 ATGTGTTGAAAAGACTATCCTTCTTGATTGAATTGCCCTGTTCCTTGTAAAGATCAGACTTTGGATG
 AGTCTATTTCTTAAATTTCTTTCATCCAAGTTTTAAATAGTCCCTCATTAGACTTTTTTTTTTTTGAG
 ACTGGGTCTCTCTCTTTCACCAGGGCTGGAGGCTGGAGTGCAGTGTGCAATCACAGCTCACTGCAGCC
 TTGACCTCCTGGGCTCAAGTGATCTCCCATCTCAGCCTCCCTAGTAGCTGGGATTACAGGCACATGCCA
 ACCACGCTGGCTAATGTATTTTTTGTAGAGATAGGATTGCACCATGTTGCCAGGCTGGCCTTGAACCT
 CTTGGGCTTAAGCAATCTGCCCTGCTTGGCTGCCAAAGTGTGGGATTACAGGCATGAACCACAACACC
 TGGCTAGCTAATTTAAATTTTTCTTTTGTAGAGATGGAATCTTGTGTGTTGACCTGGCTAGTTTCTA
 ATTCTGGCCTCAAAATGATCTCCACCATGGCCTCCTGGGCTGCTGGGATTACAGATGTGAGCCACCAC
 ACCCAGCATATTTGTTAGATTTATACCTAAGTATTTAACTTGCTTGATAATTTAAATTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTGGAGATGGAGTTTCGTTCTTGTGCGCCAGGCTAGAGTGTGGTGGCAGCATCT
 TGGCTCACTGCAACTTTTGCATCCAGATTCAAAGGATGCTCCTGCCTAAGCCTCCCAAGTAGCTGGGAT
 TACAGGCATGTGCCACCATGCTGGCTAATTTTGTATTTTGTAGAGACAGGTTTTTACTATGTTGGT
 CAGGCTGCTCGAACTCCTAACCTCAAGTGATCCACCTGCCTTGGCCTCCCAAAGTGTGGGATTACAG
 GCATGAACCAACCCGACCCGGCCGATCTTTAAATGTTATTGTGCTTTTAAATTTCAATTTCTAATGTTCA
 TATTTGGTATATTAGAAAGCAATTGACTTTGTATATTAACCTTTGTATTTTGAACCTTGTCTGTAATGT
 TTATTAGTTCAGAAATTTTAAAGTCAATTTCTTTGGGATTCTCTACATAGAGAATCATGTAATCTGTGA
 ACAAAAACAGTTTCATTTCTCTTTTCAATCTGTATTAATTTCTTTCTTTCTTTCTTGGCTCATTGCAT

FIGURE 1, sheet 14 of 66

GGCTAGATCTTCTAGCATTGTACTGAATAAGAACAATAAGCATGGATATCCTGTTTTCAATCTTAGAGGG
 AAAGCATTCAGTCTTTTACCATTAAATGTAATGTTAAATATAGATTTTTTATAGATGCTTGTTATCAAG
 TTGAGAAAGCTCCCCTGTATTCCTGTTTTCTGAGTTTATTTTATGAGTGGTGTGAATTTTGTATGC
 TTTTCTGTGTCTATTGATATGATCATATGTTTTCTTTCTAGCCTGTAAACATAGTGAGTTACATTGA
 TTTTGAAGGTTGAACCAACCTTGCATCTCTGGAATTAAGGCTGATATTGTTGGATATTATGCTACC
 CAATTCCTCATGGTGAATGTAATCTCCATTGTTGGAAGTGTGGCCTGGTGAGAGGTGTTGGGTTATGGG
 GGCAGATCCCCTCATGGCTTGGTGTCTCCTCACGATAGTGAGTGAGTCTCACGAGATCTGGTTAATTTA
 AAAGTGTGTGGCTCCCCTCCCTGTCTCTCTATCTTGCTTCTGCTCTAGTTATGTGATATGCTGTCAGGTGC
 TGGGCTCCCCCTTACCTTCTGCCATGATTGTGAGCTTCTGAGGCTCACTGGAAGCTGAGCAGATGCC
 CCGACCATGCTTCTGTACAGCTGTAGAATATGAGACAATAAACCTATTTTCTTTGTAAATATATCC
 AGTCTCAAGTATTTTTTGTGTTGTTGTTGTGTGAGATAGGCTCTCACTCTGTCGCTAGGCTGTAGTGCA
 GTGGTGCAGCTGGGCCCACCTGCAACCTCTGCCCTCTGGGTTCAAGTGGTTCTCCACCTCAGCCTCCTGA
 GTAGCTGGAATACAGGTGTGTGCCACACACCCGGCTAATTTTTGTATTTTTTGGTAGACATGGGGTTT
 CACCATGTTGGTCAAGTTGGTCTTGAACCTCTGACCTCAAGTGATCAGCCTGCCCTGGGCTCCCAAGATG
 CTGGGATTACCAGCATGAGCCACCACAGTGGCCTCAAGTATTTCTTTATAGCAATGAAAGAATGGCCAA
 ATACACACCCACTTTATCATGGTATATAATCTCTGTATGTATGTCTGAATTTGATTTGATAATATTTTG
 TTAAGGATTTTTGTATATATTCATGTGGTATATTAGTCTGTAGTTATTTTATTTTATTTTATTTTGA
 GATGGATCTTAGTCCATTGGCCAGGCTGGAGTGCAGTGCAGTGGGATCTGGGCTCCCTGTAACCTCCACCT
 TCTGGGTTCAAGTGATTCTCTTGCCCTCAGCCTACAAAGTAGCTGGTACCACAGGTGCGTGCACCATGCC
 TGACTAATTTTTGTATTTTTAGTAGAGACAGGTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGA
 CCTCAAGTGATCCACCCACCTTGCCCTCCCAAGTGTGGGATTACAGGCAAGAGCCACCTGCTGCCCTGCC
 ACAGTTATATTTTTTGGATTGCTCTTGTGTTGGTTTTATATCAGGGTAAATATTAGTTTCATAAAATGAA
 TTTAGAAGTATTTCTGTGTCTATTTTTTGAAGATATTGTGTAGGATTAGTGTAACTCTTCTTTAAG
 ATTTGATAGAATTCTCCAGTGAGACCATCCGGATATGGAGATTCTGTATGGGAAGTTTTAAATTTATA
 AATTCTGGCTGGGCACTGTGGCTCATGCGTAATCCAGCACGTTGGGAGGCTGAGGCAGGAGGATCACT
 TGAGCCCAAGGATTTGAGACCAAGCTGGGCAATAGAGTGAGACCTGTCTCTACAGAAAAAATAAATAA
 TTAGCTGGGATGGTGGCATGTGCTATAGTCTTAGCTACTCGAGAAGCTGAGGTGGGAAGATGTCTTGA
 GCCTAGGAGTTCAAAGCTACAAATGAGCTATGATCATGCTGCTGCACTCCAGCCTGGGTGACAGTGAGACA
 CTGCCCTTAAAAAATAAAAAAGTAAAAATAAATATAAATTAATCTCTTTAATAGTTAAGGGCAATTAA
 GATTATCTGCTTAAGGCCAGGCGTGGTGGCACATGCCTGTAATCCAGCACTCTGGGAGGCTGAGCGGGG
 TGGATCACGAGGTCAAGAGATGGAGACCATCCTGGCCACATGGTGAAACACTCTCTCTACTAAAAATAC
 AAAAATTAGCTGGGCGTGGTGGCACGACCTGTAGTTCTAGCTACTCAGGAGGCTGAGGAAGGAGAATTG
 CTTGAACCTGGGAGGAGAGGTTGAGTGAGCTGAGATCATGCCACTGCCTCCAGCCTGTCAACAGAGC
 AAGACTCCATCTCAAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
 TGTAGTCCCAGTACTCAGGAGGCTGAGACAGGAGAATCGCTTGAACCTGGGAGGAGAGGTTGAGTGGA
 GTCAAGATGGCGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCTGTCTCAAAAAATAAATAAAT
 AAAACATTAAAAAAGATAAACCCTACTTAATATTGGATGATTGTAGTAGTTTGTGTTTTTCAAAGATTGG
 TTCAATTTAATGTAATTTGTCCAGTTTATGTGTGTAGAGTTGTTTATAAATAATTCCTTATTATTTTTTGA
 CATCTGTATAGTCTGTAGTAATAGACCTTGCAATCTGAATACCTGGTAAGTACGCTTCTCTCTCTCTCC
 TTTTTTTTTTTTTTTTTTTTTTTGAGACAGACTCTCGCTCTGTTGCCAAGCTGGAGTGCACTGGTGCGA
 TCTTGGCTTCCGACCAACCTCCACCTCCAGGTTCAAGTGATTTTCTGCTCAGCCTCCCGAGTAGCTGG
 GACTACAGGCACACACCACCATGCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTT
 GCCAGGCTGGTCTTGAACCTCAACCTTGAGATCTGCCCGCTTGCCCTCCAGAGTGCTGGGATTACAG
 GCGATGAGCCACCGCTCCATCCAGTCTTCTCTCATTTTGTGCTTGTGTAGTCTGTATAGAAGTTTGTCAAT
 TTTATTAAATTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGCTCTGTTTACCCAGGCCA
 GAGTGCACTAGTGTGATCTCGGCTCACTGCAACCTCCGCTCCAGGTTCAAGTGATTCTCCTGCATCAG
 CCTCCCGAGTAGCTGGAACCTCAGGCTTGCAACCAACAGGCCAGCTAATTTTTGTATTTTTAGTAGAGAT
 GGAGTTTCCCATGTTGGCCAGGCTGGTCTTGAACCTCCGACCTCAGGTGATCTGCCTGCCTCAGGCTCT
 CAAAGTGTGGGATTACAGGTGTGAGCCACCGTGGCCAGCCGATTTTATTAATTTTTCAAAGAACCAGT
 TCTTTGTTTCATTGGTTTTTCTATTTTTTTTCTGTTTACATTTAATCAATTTTGTCTTATTTTTATTA
 TTTCTTCTCTCTGCTTGTGATTTATTTTGTCTTATTTTCTAGGTTCTTGGTGTGGGAGCATAG
 ATTATTAATTTGAGATCTTCCCTCTTTCTAATACACATTTAGTGCTATAAATTTCCCTCTTGGTGGT
 GCTTTAGCTGTGTCCTCAAGTGTGATATGTTTATTTTCTATTTTCAATTTTCAATTCAGTTCCATGATTTTTTAA
 ATTTCCCTTGACCTATGTTTTATTTAGGAGTACTTGTTCATTTCCATGTGATTGGAGATTTTCTGTGA
 TCTGTTATTGGTTTCTAGTTTGATTCACCTGTGGTCAGAAATCACATTCTATACGATTTCAATCTTGTA
 AATATTTTGATGTTGTTTAAATGCTCAGGATATGGTCTATCTTACTATTTCTTGATAGACCTCAAAA
 GGTGTTGTAGCCTGCTTTGTAGGGTGGAGTATTCTACAAATGTCAATTTGATTTTGTGATGCTGGTGT
 GGTGAGTTTTCTATGTTCTGTGCTGATTATCTATCTATTCTATCAACTGACAGAGGAGCTGAATCCTC
 CAACAATAGTGATTTTTCTCTTTCTTCTTCTTCTTCTTCTTCTTTTTTTTTTTTTTTGAGACAGAGTCTC
 CCTGTGTGCTGCTGGCTGGAGTGAAGTGGGAGATCTCCACTCACTGCAAGCTCCACCTCCTGGGTTTCA
 GCCATTCTCTACCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACCCGCCACCCAGCCCGGCTAATTTT
 TTTTGTATTTTTGGTAGAGGTGGGTTGCCAGGATGGTCTCGATCTCTGACCTTGTGATCCACCCGCCCTC
 AGCCTTCCAAAGTGTGGGATTACAGGCGTGAGCCACCGCGCTGGCCTCTTCTTCTTTTTTTTCTTTTCT
 TTCTTTCTTTCTTTCTTTCTCTCTCTTTCTTTCTTTCTTTCTTTCTTTCTTTTCTTTTCTTTTCTTTCT
 GTTGGCCAGGCTGGAGTGAGTGGCCTGATCTCGGCTCACTGGAACCTCCGCTCCAGGTTCAAGTGA
 TTCTCTTGGCTCAGCCTCCAGAGTAGCTGAGACTACAGGTGTGCACCACCATCTGGCTGATTTTTGTGA
 TTTTTTATAGAGATGGGGTTTTGCCATGTTGGCCAGGCTGCTTCAATCTCCTGACCTCAGGTGATACA
 CCGCCTTGGCCTCCCAAAATGCTGGGATTATAGGCATGAGCTATCATGCCTGACCTTTTTCTTCTTCAAT
 TCTATCAGTTTTTGTCTCACATATCTTATAACTTTGTGTTTGGGGGCATTTAAGATTACTGTGTCTTCT
 TGTTTGTATGATCCTTTTGTATTATATAATGTCCCTCCCTGTGCTGGTAATTTTATTTGCTCTGAAGT
 CTACTTTGTTTACACTTTCTTTAATATTGTCATAACATATTTTTTCCATCCTCTTACTGTCAAATTC

FIGURE 1, sheet 15 of 66

TTATATTTTTTATTTGAAGAGTTTCTTATAGATACCATATAGTTAAACATCTTTTAAATCCCCCTCTGCTAA
 CTCTGTCTTTTAACTGGGGTATTTATTTTATTTTATTTTCTTTTGTGATGGAGTCTCACTCTGTTC
 CCCAGGCTGTAGTGTAGTGCTCACTTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGTGATTCTC
 CTGCCTTGGCCTCCCAAGTAGCTGGAATTCAGATGTGCACCACCATGCCTGGATAATTTTTTGTATTT
 TTAGTAGAGACTGGCCAGGCTGGTCTTGAACCTTTGACTGTATGGGAACAGACACACAACCTCTCCCAAT
 AAGCACAAACAGAGACACAGAAGCAGTCCAAGCCTCTGATAAATCTCCCATCTGAATCCTTAAAAAT
 GCTTAGTCTGTAAAGAGATGTGCCTCTGACCTAACTCAGCCAGACGCCCTCTCAGGTTGTTTTTCTA
 AAATAAACCTGTCTTGAAGCAAGCCACCTTTCTTTCTCTCTCTTTCTTAAATCTACACTGACTT
 CAAGTGATCTGCTTGCCTCGCCTCCCAAGTGTGGGATTACAGGTGTGAGACACTGCCGCCGGCCTAA
 CTGGTGTATCTAGACCATTACATTAAATGTAATTATTGCTATATTAGGGCTTAAGTCTCTCTTTTCATT
 TTGTTTTCTCTGTTTTTTAAATTTCTGTTTTCTTTTCTTAATTTTCATGCTTGTCTCTGAAACATTTTT
 AGAATTCATTTTGAATTTATATAGTTTTTGTATGATAAATATATATTTGGTATAGCTTTTTTAGTGG
 TTGCTCCAGGTATTACATTTTGTATATAGCTTAATACAGTGTATTGATGTCATTTTACCAGTTTGAAGT
 AAAGTATAGAACTCTTAGCTTCCATTATGTCTCTACTTTTCCCTGTTTATATAATTATCTTAGCTATTTT
 CTCTTCATACATTTAGAACCACATCATACAGTGTATTAGTTTTTGTCTTAAACCATCAACATATTTTGA
 AACTCAAGAGAGGAAAGCCTATTGTATTACCCACAGTTTGTCTATTATATTTCTGTCTCTCTGATG
 TTCCAAGATTCTCTTTTTTAAATATTTCTTTCTGTTTGGAGAACTTCAATTATTAGTAAGTCTT
 TTGTTTTTGTTTTTTGTTTTTTTTAGAGATGGGGTATTGCTGTACCTAGGCTGGAGTGCAGTAGTGTG
 ATCATAGCTCACTGCAGCCTTGAACCTTGTAGCTCAAGCAATCCCCCTGCTCAGCTACCAATAGCTGG
 TACTACAGGCATGCACCACCATGCCTGGCTAATTTTTTTTTTTTTTTTTTCTGAGATGGAGTCTCCCT
 CTGTCAACCCAGGCTGGAGTGCATGGCGTGATCTCAGCTCACTGCAACCTCTGCCTCCAGGTTCAAGCA
 ATTATTCTCTCATCTCTGCCTCTGAGTAGCTGGGACTACAGGCACACACCACACCTGGCTCATTTT
 TGTATTTTTTAGTAGAGACAGGTATCACCATTGTGGCCAGGCTGGTCTCAAACCTCTGACCTCTAGTGAT
 CCGCCTGCTCAGCCTCCCAAGTGTGGGATTACAGGCGTGAACCCACATCCCCAGTGTGTGTAGGCT
 TTTAAATGTAAAGCAAAATTTGTTCTACAGCAGTGAATCAACAGTAGGTTTGAACCTCAAGAAGCC
 CAACACAAATTTAAGTTAGAGTTTTTGAAGTAATATAAGTTCTCTTTAAATGCATTTTAAATATTA
 ATAATTTCTTTTAGTATTGCTTAACCCCTGTAGTCACTAGGGCTCCATAATTATTTTGAACCAACT
 CTAAGTTAATATTTCTTCACTGTAATTTCAAGCATCTTAAATCTTCTAAGCACAGCTATAAGTTGAAATG
 ATTTTAGAGAACTGTGAGTAAATCTAATATGATAAAATGGCTCCATTTTGCAGGGAAGGATGTACTGG
 TAATTGACAGAAATGACCAAGCAATCTTGAAGTATAGGAGTAGGTCAGACAGATTGAATGTGAAGTATTT
 GAATATACTATAAATGAGATATAAATGATATTTTGAATCAATATGCAATTTTGTGTATCTAATAAGG
 ACTTTTAAAGGATACAGTCAAGAGGAGAGATGCAATATTACTGTGTTTAAAGCTTACTAAAGCAAGGAA
 GTACTGTACGTAAGTTCTCTGGCGCGGTGGCTCATGCTGTAATCCAGCACTTGGGAGGCGGAGG
 GGGCAGATCACAGGTCAGGAGTTCAGACACGCTGGCCAACATAATGAACCTCGTCTCTACTAAAAA
 TACAAAAATTAGTTGGCGGTGGTGGTGTGCACCTGTAATTCAGCTGCTTGGGAGGAGAGGAGAGAA
 TTGCTTGAACCGGAAGGAGAGGTTGCAAGTGAAGCAAGATCGTACTACTGCCTCCAGCTGGGCAACA
 AGAGAGAACTCCGCTCAAAAAAAGTTCTCCGGCATTTTGAAGCAAGGCAAGCTGCACTC
 ATAAAAATTTTACCTTTGGAACAGAACTTTATAGTTACATAATCAATGGAAGAACAGATTGTATGACAA
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 TATTATTATTTTTGAGACGACGCTTACTTTGTCTCACTTTGTGCGCCAGGCTGGAATGCAGTGGCGG
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 TAAGACGAGTCTCGCTCTGTGCGCCAGGCTGCAGTACAGTGGCGTGATCTCGCTCACTGCAACCTCTG
 CTTCCCGGGTTACGCCATTCTCTGTCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCGCCACCAT
 GCGCGGCTAATTTTTGTATTTTATTAGAGACGCGTTTGGCGGTGATAGCAGGATGGTCTCGATCTC
 CTGACCTTTGTATCCGCGCCCTCAGCCTCCCAAGTGTGGGATTACAGGCGTGAGCCACCGCGCTGG
 CCAGAGACGAGCTTTACCATGTTAGTCAAGCTGTCTCGAATCTTGGCCTCAAGCCATCCACCCACCT
 CGGCTCTCAAAAGTCTGGGATTACAGGTGTGAGTACCATGCCAGTTTATACCCAGTCTTGTAAAGT
 AGATGTTACATCTCCCTCTGTTTAGTTCACTTGACGCAAGATTCTCTATTTTTTTTTTTTTTTTTTTGAG
 ATGGAGTTTCACTCTTGTGCGCCAGGTTGTAGTGGCACAATCTGGCTCATTGCAACCTCTGCCTCCCA
 GGTTCCAGCAATCTCCTGCTCAGCCTCCAGAGTAGCTGGAATTACAGGCGCTGCCACCAATACAATA
 CTTTTTGTATTTTAGTAGAGATAGGGTTTCACTATGTTGGCCAGGCTGGTCTCAAACCTCTGATCTCA
 GGTGATCCACCACCTCGGCTCCCAAGTGTGAGATTATAGGCATAAGCCACTGCACCCGCGCTAAGA
 TTCTCTATTACTTTGAGAATAAAACAACTGTTAAATATTAACACAGTGTGCTTGGCCTATGTAACAT
 CTGCTTAGATAACATACTCTCTTAAGCAGTAAATGAGTATGAGTTACAGGGGCTCTCTTTTGTCTTTA
 GGGACTCTAGAAATGCCAGATAATCCACTTTTGTGGTGACAGAAGATCTGGCAATAATAGCTACCGTT
 TACTGAACAACAATGCACATTAAGCACTGTGTCATATGCTTTAGGTATGTTATTGATCCTCACCAAT
 GCCTAGGTATTATTCCTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTATTT
 TCTTTCTTTTAAACAAAGAAAGAACTGAGGGGGCTGGGTGTGGTGGCTCAGGTGTGTAGTCCCAGCAT
 TTGGGAAGCTGAGGTTGGAGGATCACTTAAGGTCAAGAATTTGAGGTTACAATGAGCTATGCTAGCACA
 CTGCACTCCAGCCTGGGTGACAGGTGAGACTCTGTCTCTAAAAAATAAATAAATTTACATCTGTCTAAAA
 GATAAATGACCTTTTAAACAAACACATGTAGTATAAAGTTTATGACATACAATCAAAAAATAATTAA
 TAAAAAACAGCCAATGTGACCTGATATTTATAGAACACTCTTAACAATAGCAGAATACATTTTTTAA
 AAGTACCTGTAGAACATTTATCAAAATAGGCCATACATATTTTCTCAATAAATTTAAATTTTCTGTCT
 ATAAAAATATCTTTCTGGCCACAATAAATTAATTAAGAAATCAATAAAAGGATATCTAGAAATCTCC
 AAATGTTTGGAAAAATAAACTTCTATATCACACATTAGTTTCAAAAAAGAAATGGAAGTGTTTTGAA
 CTGTCTGAAATTTAAACACAAGATAATAAACTTGTGAGATACAATAAATAGTGCTAGAGGGAGTCTT
 GTAGCACTAAATGCCTATATTAGAAATAGGGGCGCGCGGTGTCTCATGCCTATAATCCTAGCACTT
 TGGGAGGCGGAGGAGGTGATGGCTTGTAGCTCAGGAGTTCAAGACCAACCTGGGCAACATGGTGAGACCG
 CCTCTCTACAAAAAATACAAAATTAGCTGGGAGGTTGAGGCTGCACCTTGTGGTCTCCGCTCCTCAGGAG
 GCTGAGGTGGGAGGTTGGCTTGAAGCTGGGAGGTTGAGGCTGCACCTGAGGATGTTTCATGCCACTGCACT

FIGURE 1, sheet 16 of 66

CCAGTCTGTGTGACAAAGCAAGACCCCGTCTCAACAACAACAACAAAAACAACAAACAAACAAAA
ACGAAATAGAAAAAGAGTAAGTTAAACACAGAATAAAATGAAGACAGGAAATAATTAGATTGGAGCAG
AAACTTATGAAATAGAAAAACAAAAATAGCAGGAAATCAATAAAGCCTAAAGCTGGTCTTTGAGAAGATC
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AGGCGGGTGGATCAGAGGTCAAGGTCAGAGGTGAGACCAACCTGGCTAACACAGTGTAAACCCAGTCTCTACCAA
AAATACAAAAAATAGCCGGGCGTGGTGGTGGGCGCTGTAGTCCCACCTACTCAGGAGGCTGAGGCAG
GAGAATGGCGTGAACCCAGGAGGCGGAGATTGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGG
CGACAGAATGAGACTCTGTCTCAAAAAATAAACAACAAAAACAACAAAAACAGGTTAAAGACCGGT
GTGGTGGCTCATGCCGTGAATTCAGCACCTTTGGAAGGCTGAGGTGGGCGGATCACGAGGTGAGGAGTTC
GAGACCACCTGACCAACATAGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGGCATGG
TGGCACATGCCGTGAATCCCAGGTACTCAGGAGGCTGAGGCAGGAGGATCACTTGAACCCAGGAGGCAGA
GGTTCAGTGTAGCCGAGATCGTCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTTAAAT
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ATAATTAGAGAATATTTAGAAAACTTTTTAACAAAAATTCACATATATAAATGGACAAACCCCTTG
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CCCAATCAATATAATTCACATACATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
GTGTTTGACAAAACTTAACATCCGTTCTTAATAAAAACTCAGCAAACTAGGTATAGGGGCCCTTTGTTG
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AAAAAGACAAATTAACCTGTTAATTCTTCTTAAGAGCCAAATGCAGGTGTTTCTTGACAATGTAGT
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GCTGGAGTCAATGGCGGATCTCAGCTCACTTCTGCCTCCCGGGTCAAGTGATTCTCTACCTCAGCCT
CCCGAGTAGCTGGTATTACAGGCATGCGCCACCATGCCAGCTAATTTTTGTATTTTACTAGGGAGGG
GTTTCACCATGTTGGTCCGATGATCTCAATCTCTTGACCTTGATCCGCCTGCCTCGGCTCCCAAG
TGCTGGGATTACAGGCGTGAGCCACCGTGCCCGGCTATTTTTCTGTAGTCCCATTTCTTGCTTCAGAG
TTATTCAGGAGTTAGCACGGTACTACAATTGCTATGCACAGAAGCTGAGGAACATTTGGTAGTGTAAAT
ACCTAACATTGACTTAAATCTGTACATAGGTAGTTCTAGATATACTATGCTTCTTTACTGCATCAACAG
ATGGACATTAAATGGTAGAATTATGACTAATTTGTATAAAGCATTTTATATAGTATATATATTTATTTA
TTTATTTATTTATTTAGACAGAGTCTCGCTGTGTTGCCAGGCTGGAGTGCAGTGGTGCATCTTGGCTC
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GCCACTGCGCCCGCTAGTATAAATAATTTTTAAATTAGCTTTAAATATTTTGTAGTTAAATCTTGAT
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CAGGCTGGAGTGCAGTGGCAGATCTCGGCTCAGTGCAAGCTCTGCCTCCTGGGTTACGCCATTCTCT
GCCTCAGCCTCCAGAGTAGCTGGGACTACAGGCGCCCGCCACCACGCCCGGCTAATTTTTTTGTATTTT
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AGCCTCCCAAGAGCTGGGATTACAGGCGTGAGCCACCACGCCCTGGCCGCTATTAATTTTTATAAGCAG
TTTGCTTTTAAATATTTAGAGAAATAGCTCTTGAATACATTTAAACCAAGTTTTAACTTTTAAAT
TTAATACTTTATTTATTTATTTATTTGTTTGTGTTTGTGTTGACAGAATGTCTCGCTCTGTTGCCAGGC
TAGAGTGCAGTGAACAATCACAGCTCACTGCAGCCTCAAACCTCTGGGCTCAAGCCATCTCCACCTC
AGCCTCCCAAGTAGCTAGGACTAGAGGCTAGTGCACACACCCAGCTAATTTTTTAAAGATTTTTTTT
TGCAGAGACATGGTCTCACTATGTTGCCAGGCTGATCTCAAACCTCTGACTCAAGTGATCCTCCTGCT
TCAGCCTCCCAAGCGTTGGAGGTTACAGGCATCAGCTACTATGCGCAGGTTTTAATTTACTTTTGAATA
AGTATGTGAATTAATAATTAACCTTAAAGCTGTTGGAACCTTATTTCTGAGCCTTGAGAGGTGTGTTG
CTGTGCAGCCTGAGTCACATGGCATGCAGCTGCAACTTTTGCTTGTGTTTTCTTTAGATAATTAAGAAC
AAACAGCACCAAGACCCACAGATCATTACCCCTCCTTATAGAGTAATAAAGTATTCTTTCTTGGAAT
TTAGCAATCTGTAACCAATCAAAATGCTGTGGCATATGCACTAGTCTTGATGAAAAGAGTCTTGCTCTG
TCGCCCAGGCTGCAGGCGAGTGGCAGTCACTGAGCTCACTGCAGCCTCGAACCTGCCGGGCTCAGGTGATCC
TCCACCTCAGCCCTCTGAGTAGCTAGGACTACAGGCATGCACCACTGTGCCAGCTAAATGTATTTTTT
GTAGAGATGGAGTTTGGCATGTTGCTCAGCCTGTTTTTGAACCTGGGCTCAAGCAATCCTCCCATCTCAG
CCTTCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATGCCCGGCCAAACCACTAATATTACAGTAT
TTTGTGTGCTCTCTAATAATATCTATGTGAATGTATGTATGTTCTTTCTTTTGCCTTTATAAACAA
ATGATAGTATATTTTTCATACGTTCTGCACTCTGATTTCTTCTCAATGTATCTTGGCAGTCTTTCTCA
GTATATAGTGACTTTTCTCAATTTTTTATCTTTTATACCTCAATATCTGGCACATAGTAAGCAAAATCATA
ATGCTGAGTGAATGAATATTAATGAATAAAGGAAATTTTTGTGCTGCTATTGGAATTAGCTCTCT
ATATATTTCAACATGTTACACATATACAATGATCTAAAACTTGTCTTACTCTTTTCTATCCACTAGAGG
GAGACATCAACCTGTTTGGAAAAGAAATGATCACTTAAAGTCTTTAGAAATTTGAAACCACTCTCTAGC
AGGTGATCCTTGTAGAATTTAGCCCTTAACGCTATCCAGGACTGGAGGTTGAAGGGACGATAGAGGGA
GCAGGAGGAGAAATGCATGGATTAAAGAGCGAGAACACAGGTGAACCTTTCAGCTTTTTGCTAACAGTCA
GACAACTACTGACCTGACTCAGTGATGTGCTAGTAAACAGCTCTTAAAAAAGGAGGAGGAGGAGGAG
AGATTGCTGATTTGTATGTAATGTTTATGAATTTCACTAGAGAAAAAGACAATATCAAACTGAGCCATG
CACCAAAACAAGAGAACAGCAAGAGTTCACCTTCTATCAGTGCCCTGGGTTGTTTGAAGGAGGAGG
CCGACCTGAGCCTGTGAGCTCCCTTCTGGCGAGGAGAACTGGAGTGTAGTTATCCACCATTGGCCA
AATTCAGCCACTCGGGGTTAATCACCGAATTGCAATTCCTTGACATTTAACAGTAGGCTCTCTTG

FIGURE 1, sheet 17 of 66

CTGGGCGCGGTGGCTCATGCCTGTAATCCCAGCAATTTGGGAGGCCATGGCAGGAGGATTACCTGAGGTC
GGGAGTTGGAGACCAGCCTGGCCACATAGTGAAACCCCATTTCTACTAAAAATACAAAAATTAGCTGG
GCGTGGTGGCAGGTGCCTGTGGTCCCAGCTACTCGGAGGCTGAGGCAGGAGAATCGCTGAACCCAGGA
GGCGGAGGTTGCAGTGAGCCGAGATTGTGCCACTGCACCTCCAGCCTGGGCGACAAACAGTGAAACTCCATC
TCAAAAAAACAAAAACAATAACAACAACAGTAGGCTCTCTTGAGCCAGCCTGAGCAGGCTCTTGCAATG
CTGCTGAAGCTGTGTCGGGTCTTAGTTACTTTTCTGTAAAGTGGGGATGATAAATCTGCTCATTATGTAG
ATTCTATTACATAGAGGACACATAAGTTCTTTGAATGCTTAAAGCAATGTTTCCTAAACTCTTTGGTCA
TGAAATCACCCAGTGGCTTGTGTAAATAAACATTCACAGGACCTGCCCTAGAGCACCTGGGTAGAACAA
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CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGATCAAGAGATTGAGACCATCCT
GGCTAACACGGTGAAATTCATCTCTACTAAAAATACAAAAGAAATTAGCCGGGCATGGTGGCAGGAGCCT
GTAGTCCCAGCTATTTGGGAGGCCGAGGCGAGGAATGGCATGAACCCGGGAGACAGAGCTTGCACTGAG
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CCTGTGAAATGGGAGAAACACTGCTGCAAAATACCTTATAATTGGGTGAGGTGTCAGGGGTCTTTCTCT
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TCCGTTCACTGCTTCTTCTACCTCAGAGCCCAAACCTTCCAAAGAGGAAAAACCTGCTCCTTGCCATCTC
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GCTATTTCCCATTTTACAGAGAAAAATCAAAGAAGTTGGGAAAAATGTCGAAGGGCACACAACATAGGAAGT
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AATTCTGATCTATGTGCGCTAGTTTCTTGTGTTCTCTGTTCTCTCATAGAAATCCTGGGCTCTCTTCT
CCCAGCCACAAGGTTAGGTTGAAAAACAGAGCAGATGGAGGTAGTTGTAGCCTACAGGTGCCCTGAATG
AAGCTTCCACAGTGCTAAAGTGAAGAACGAGGGACTCCAAGGGAAGGATTCAAGGCTGGGCCCATGCAC
CTGTGTAATTGAGAAGAGACCCAGAGGAGATCAGCGCCCTCTAATTAGCCCTGGTAAGGAGCTCTGGGA
GTTACTGTAACCTCTCAGAAGAACCACCAACATGCGGGAACGTGACTTCTTACCTTCTGAAAGTCCACAA
AATTCTGATTGCCACCATTAATTTGTCACTTATCATTTGCAACAGGCATTGTAGGTTGTCTTATGCATT
TGTCTTCTCCCTTCAGCTAGTGATAAAGTCTTAGGGAGACCAGCAGTTGAGAGAGAATGGGCTTGGTG
TGAAACAGATCTGGTTTGAACCTCTGCTACTTACTAGCTGTGGGCAAGTTCCTTAAATCTCTGAGTC
TTAATCTTCTCATCTGTAAATGGAGACATAAGGAGTACCCACCTCATTGGATTGTTTTAAGGATAAAAT
TAAATAGTGCAGGCAAGGATTTACAAGCAACTGCTGAATGAATGGTAGTTATAGCCTCCTCCTCATCAT
CTGTGAGCAAAACCCCTCATATTTCTTGTGTCTCAGGTAGACACTTAAGGTATTGCAAGCATTAAAGGA
GCATTGTGCAAAAGAGATAAATCATGAGGGCAAGATGCAGTCTCAAAGAAGAGTGTATGAAAGAAT
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TGCAGTGGTGTGATCTTAGCTCACTGAAGCCTCAACCTCCCAGGCTCAAGTATCCTCCAGCCTCAGCCT
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CTGGGATTGCAAGCATGAGCCACCACCCAGCCTGTGAGAAAAATTTAAGGTGAAATAACTAAAGAA
GTTGTTAAGAAATTTCTCCCTTGAGTGGTATTTTAGACTGAGATGAGGGAGGATAGAGGTAGGATGAGAA
GGAAGGGATGGGTCCGGTTGAAGGCCCTGTGAGATAGTAGCAGTGCAATATGGCAGATGTTGACGCCT
CAGTGCTAGGAACACAGAACTGAATCTCTTGCAAGGAGGCAGGTGTGCATCTGTATGGAAGTCAGATGA
CCTGTGTTCCCTATGAGTGCAATCTGGAAGAACCCCTCAAGTTTCTTGTGACGAAATGGTGATAAAAT
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GTGTGATGCCAGGACAGCAGTCTCTCTAGTAAGCTGTGGCTGGTGGCGTGGTGAATACGTGGAGCAGGC
TGAGGAAGCACTTGACTTGACTTAGCAGAACCATTAAGAAGCTAGTTAGCTAAACTGCCTGCACAGTA
GAAAAATAATATGTAGGATGTAAAGGAAGAGAAACAATGTGAGGGGAGAGGAGAATGCAGAGATCCTG
GCCCATGGAACAGCATTGGTGATCCTTAAGTAGCTGCATGAACACTTGGAGAAAGTTCAATTTCTGTTTA
TAATTTCCCAAGCAAGGAGAGGACTGAATAAGAGAGAAGAAACGATTCTTTCTGTTAGGTTTATCA
GATCAACCGTGCATATGTGAAGAAGCAGCCTCTGTGCACAAAAAATCAAGTCTGTATTTTTATAAAA
GCCATTTCTGGGCTGGGCGCGGTGGCTGACGCCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGA
TCAGGAGGCCAGGAGATCGAGACCATCTGGCTACCACGGTGAACCCCTGTCTCTACTAAAAAATACAA
AAAAATTAGCCGGGTGTGGTGGTGGGTGCCTGTAGTCTCAGCTACTTGGGGGCTGAGGCGGAAGATTGT
GCCACTGCACCTAGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAGCTATTCTCT
GTAATGAGCATCACTGGAGAGTTAGTTGCTATGGGTCTAAAGGACAATATGAGGCAGTTATAGTAACCTT
CCATGATATGAACAAAGAAATTGAAATGTTAGATACATTTACAAGAAGATGTAGAAAAAATTTAGTCA
AAATTTTTGAAATATTTTTTGAATATTAACATGAAATCAGACAGTCTTATCTATGGTCTCAAGCCAT
GTCTGTCTGACCTTTTTTTTTTTTTATCTCATTTCAGGGAATATTACACTGGCTGACTTATTAATATCTT
CTGAGCCAGAAAAATGTAAGGAAGCTGCATTTTCAGAATTGCATTGAGTCATTGTGAAATTGCATATTA
CAATTTGCCGCCATTTCTAACAGTCTATAACTTTTTTTTTTTTTTTTCTTAAGTGGGTGTTACATTTCA
TGCCAAATGACCTCTAGGGGCTAGTTTCTCTTCTAGTCAAGAGAATTGCTGCAGAGTTGGAAGTAAGGAC
AAAAATGTGATGTCTTATGTTTGAATTTCAATGCATAGAAAAATAGAAACTTAAGGTATGCAAGGGATT
TGTGTGGAATTTAAGTACCTTTGAGGGGAGTGGACAGGACAAAAAGTTATTTTTTACCTGTTTGTATTAC
AAATAGCAAGATCAAGACTGAAACACATGAGTGTGATTTAGAAAGAGTTGGCTGCAGGTGCTGCTGTGCT
CAGGTGGTTCAATTTAACTGCAGGTGAGGCAACCTTGTCTCATGGTCCCTGGTGCCAGGTATCAGGTTG
GGTCTGTCTGTGCTTATGCTTGTATGCTTGTACCTCTGAGGGCCCAAGTCCACGCAGATCAATAAGAAATA
AGTTACATAAATATGCTCATAGGTGGTCATTCTAGACAAGAAATTGACAACATTTCAATCAACAGTATC
TGGGCTCTACAGGACAGACATGCCTCCATTTATGCAACAAATAAGAACAGCATCTCATGACAGTGGAGAA
AACATGGGATGTGCAGGTAGGTAGGTAAAGTTGGGTGGAACCTTTACCCCTACCAATGCACATGGGTGA
CTTTATAAAATAAATGTTAGCTCTGAGCCTCAGTTTCCCATCTGTAAAATAGACAGTCCAGGGAAT
TTTCAAGGATTAAATGAAATAAAGTGAATCAACCTATGCAAGCCTGCCTACTGTGGTGTCCAGGCTAGA
AAAAATGCTCAATAAATATTAGTTTGTTTTTATTTTACAAAAGATGTGATCCTAAAGAGCTCTATCCAA

FIGURE 1, sheet 18 of 66

ATTCAAGTTTCAAATGTCAAATCACATTTTGTGAACCTTTATGTTCAAGTTGAGATGATCTCTGACATATTA
ATTAGTAATCCTATCTTTTTTTCATTCATCACCACCAAAAAAGGTGTTATTGCACGTTCAATTAATCTTTTC
CCCTTTTATTAATTCCTAAGTGTAGGGTTTTATCTCTCAGATTCTCTTAAACAGACCAATTTATACCCA
CATAATATAAATAAGCTTGTTCCTATAAAGCTCTGGAGCAGATAACTATCCAGAACCCAAATCCTCCTA
CTTGGCTTCAAGCTCAGAGAATAAAGCAACAATCCAAAGGCACCTTTGGCATGACACCTTTCTAGACAT
CTGTAGCATTCTCTTTCCCTCCACTTTTCTTATAGCTTTTGTCTTTCTGCTTTTACAGGGTTTTGT
TTTGCCTCTTGGTAGTTTCTTCTACGGAATTTCTCCCTCTGATCTTTCCAAGTCAAAGGCTTCAGCA
AACATTTGTTGAACGCGTGGATTGTCTAGGTGGGTGTTATGGACCATGGAGAATGCTAGAGATGTAAGA
CATGCGCTGTCCAATCGCAGCGCAGGTTGTGTTGACAGGTAAGATGAGGGCTGTAGGGGAGCCAAATGTGC
ACGTTCCACTGGGCTAATGTCTCTTACCTTATTTAGGCTCTTGGCTTTGGGATGTGTAAGACTTTGCT
AGACAGAGAAGGGTGGGGTGAGAAGATGAGGAAGGTGCACCTTTTATGGAGAGGCTTTCTCTCTCTTC
ACAGCAAACCTACCTGTACTACATTGACTTCTTTGCTTTCCAGGTGACATCTAGCTCATGCTGCAAG
CTCATTGTTTAACTAATGCTAGTAAGTTAATATTACCATCATATATAACATGACTTAATTTTAAAC
AATTTCAATGCTTTATCCCCAAAGATGACTTAATGGTGACAATTTCAATCCCCATTGTAGGATATTTTGG
AGACAGGAGCTCTTCAATGTCAATGTGGGTGCTTCTTAGGCAGGTGAGGGGTGAGGTGGAATGAG
GCTGGGACCTGCTCACTTATATAGCAGGCATCGTTCTCAATACCAGGCTTCAGGGGGCTTTTGGTCTA
GTAGAATGCTTCTGAAGGAAGCATCAGTGAACACAGAGCAGAAGCTTGGCACACAGGTGGCAGAAGT
TTGCTGCAAGTCTCTGCATAGAGCAGAGAGTCAAGCCATTTTCTTCTGATTGATTGGAGGCATGGTAT
GGAGGTAAATGGGTCTTGGCTCTCTCTGATTCAAGTCTTCTTAGCCACTGATAGGTGATGTGACC
ATAGGGAGGTGTTTAACTTCTGAACATTCATTTCTCAAGTATAAAATGGGGTAATAGAATTTGCC
TTATAGGCTTGGCTATAAAATAAGAATTTATGAGAGAAGCGGGGCATAAATGCTCAATAAGCGGTAGCT
GTCTATGAAGCCACTGTTGTTACTGGGTCTCTTCTCACTAGGTGGCTTCAGGTAGCTGACAGAAGCTCT
GTGAGCCTCAATTTCTCACTGGAAGTGGAGTCAATATCTCACTGAGCTGGTGTGAGGATTAATGAG
ATGCTGTGAGGTGCTTAGCACAGCGTCAGGTATGATGTTAATTTGATAGATGCATTTTCTTACCCTC
ACCTATCTTTTTCTGCGCTGTTGGCTTATGGTTGAAATTCCTTCATGACGGTTTCCATTTCCAGAGATATC
TTGTTAACAAAGTATATACCAACAAATGAAGCTGATTTTTTTTTTTTTTTTTTTTGGACAGAGTCTC
GCTCTGTCGCCCAGGCTGGAATGAGTGGCGCATCTTGGCTCACTGCAACCTCCGCTCCCATGTTCAA
GCGATTTCTCTGCTCAGCTCTCTGAGTAGCTGGGATTACTGGCATGTGCCACCAGTCCAGCCAAATTT
TGTATTTTAGTAGAGACGAGGTTTACCATGTTGGTCAGGCTGGTCTCAAACCTCCGACCTCGTATCC
ACCTGCTCGGCTCCCAAAGTGTGAGATTATAGGTGTGAGCCACCATGCTGGCCATGAAGCTGATTT
TTTTAAACCATCATTTAACAATTTTCTCCATAAGTGGCAAGGAGGAAGCATATGGGGACTGGGTACTT
TGAGAGACCCAGGACAGGAGACAGGAGGCTGAGATTGGCATGTTGCTGCTGCAGTTATTTGCCAGCG
ACACACTCTTCCGTCCTCAACTTCTCTGCTCAAGGACAGGAGACTCTGCTTCAACCTGAGAG
AAACAGGACTCTCAGCTTTAATGAAATTTGACTTAGGGTGGGGCAGTGGAGACTTTTACAGCTATTG
TTTAGCTGATGAAGCAGATGCTTCTCATCTTTGAGGCTGTCTTACCTACCTGTGGACCTCATCTTAT
CAACCCAGAGCACACTTGGCTCTCTCTATTTTGGCTAAACACCAACAGCTGAGGCTGGTACTGTAAAC
TTTCCCTCCAAATGCCCCCTCTCTCTCTTATTAGAGATCTGGATCACAAACCTCAAAACCATGTCTC
CCTTATGCCACCTGAGTAGATGGTTTGTATGATTAATTAGGCACAGATGTGACACTGGGGGTTCTCACAA
TGGCTGTGGGTACATGCTACTTTTCTTCTTCTATCATCAGCAACAGCTGCTTAAAGCCAGTTAAGA
CTGTGCTCTAGTCTGCAACCTGGGGCTCTGCTGGGTGGGTGAGGGGAACACCCCATTAAGCTGGG
GAACGGGGCTGCCACAGGGGCGCGAGGGGCTTCCGCCGAGAAGAGGGGTGGGCAGGTGCTCCAGC
GGAGAAGGGCGCGCTGGCCGAGGACAGGTCTCCCGGTGCCACTTCAAGTGAAGTTCGAGGAAGTACCT
GGGATCTTTGATCTAACGCGAAAGGCTTCCAGTGACCTCTTGAAGCTGAGAACCCACTCCCTCCACC
TCTAGTCCACGGCTTTGCCACTCCAGGGCCGAGGTTACGTTTGGCTGCTGGGGATTGACAAACCCAAAG
CCTCTCTGTTTACCAGTGGCTCTTGAATCAGACATCTGTTCTGAATGACACTTATGTGAGTACGGG
GCTGAGGACGTGATCCCTGAAAGTGTGGTCCCCAGACTGGCTGTATCAGTGTGGCATCCCCAGGACCTG
GTTGGAATGATATTTCTCAGGCCCTACTCCAGACCTCTTAAATCTGAGACTGGGGCTGCGGGGAGCGCC
ATCTGTGCGCCACTATCTTGTGGTGGACAGGAGTGGTTCGAGGGTGTCTCCACTTAGAGGTACGCG
CGCGGCTCGGGGCTTCTGAGACCGTCGGGCTCCCTGGCTCGGTACGTGGGCTCAGGCACTACTCCCT
CTACCTCTCTCGGTCTTTAAAGGAAGAGGGGCTTATCGTTAAGTCGCTTGTGATCTTTTCACTTTC
TCCAGCTGCTGGCTTTTGGACACCACTCCCCGCCAGGAGGAGTTGCAAGCGCGGAGGCTGCGAGAA
ATAACTGCCTCTTGAACCTTCAGGGCGAAGAGCAGGCGCGAGCGCTGGGCCGGGAGGGACACCCGA
GCTGCGACGGGCTCTGGGGCTGCGGGGAGGGCTGCGCCCGGAGCCCTGAGCTGCAGGAGGTGCGCTCGC
TTTCTCAACAGGTGCGGGCGGGGCGCGGCCGGGAGACCCCTTAAAGCGGAAAGCACGCTGCTCCGC
ATTTTAGAGAAGGCAAGGCCGTGTGTTTATCTGCAAGGTAAGCGCCCTTTCGCTCGAGGTGTGGTTTAA
TTGCTCATTTTTGTTTGAATCCTGCGGTGAGAAACAGTCTGTTGAGAACATAAAAGACCAAAAAAC
GATCACCAAAACCACTGCTCTGAAAGCTACTGGAAGTTGGAAGTATGATGCTTTGATTAAATGCTTCT
ATTCAAGACACTGGCAAGTTAACTTATTTAGTTTGTGCGGTGAGCTCTGGGTGATTGTGCTAATATGAA
TAACTGAAAAACATTTTATTTCCCTATGGTTTTCTCGATGGACTTCCCACTATGGGTGAAATGACAAT
GGAGTTGAATACATTTCTGATTGAACCTTTGAGGGCTGGGAAGATGTACACGCTCTCAGGCAAGATGATA
GGGGTTTTAAATGATTAATTTGGCATTCCTTAGCCATGTCAGCAAGCTGCGTTCTCTCTTCTGCTGCA
GACCAAGCTAAGCTCTAACTGGTCTCTTTATTTGCTGAAGAGGAGTCCAACAACCTGCCCTCTAACCCC
TGCGTGTATTCTTATTGGAAGGACATATTAAGTCAAGTGAATGTCAATTTTGTGAAAAAACTTTGAGT
GGACTTCTATTAGGAAGATAAGGTTGATTTAATTTTACTCGCTGTTTAAAGCAGGATTGTGTTTTGG
TGTGGTAGGCAACATTTTGGAGGACAGACTTGCCTTATTTGTTATATTCTAGTATTACATGGGCAT
TCCATTAGAAAGTTTTACTTTTGTCTAAGTTTCGTAACCGGTGTCTAGTGAGGGGAACATGTTTGTAA
ATTTAAAAAGTGAACATGTGAAGGAAAGGCTTTTCTGAGAGTGTGTAAACAAATGTAACGTGACTAT

FIGURE 1, sheet 19 of 66

GAAAAGAACATGATTAAACATCTTTGACTCCTATTTTTCTGAAGAAAATGTATTTTGATATGAGTTCTAG
AAGAAGGAACTATAAGGATCTGTTTCATCAACAGGCATTAGAGTATACACCGTAGGATTGCATTTTACGT
TCAAGCATTTTTTTAGATGAATTTCTGAAACATTCTATTTTAAAAGCCATCAGATGCTTGTTAACTTT
AAGTCTTGCTCAAGACATAGAAGTTTCTGAAATCAATTAACATGTTTAGGACACATTTCTGAGTGTCTTG
AGGGATGTGAATAAATCTAATTCACAGTTTACATTTCTTAATGTATTTATAAATTCAGAAAAGGTAGATTT
AGTAGTAAATTCAACTCATAACCATATAATTAACATTTAATAGATATTGATATGTTCACTTTTAAAGATA
AGAAGGAAATTTTCTATAAGTGTATGTTGAACACATAAATAATTCAAAATTCATGTGATAATTTTAGGTGA
TGCTTTGAGTCGTTTTATAGAATAAATATGGATAAAAATAAAATACTGAAGGCTGAAGTCAAGATGT
TTAATGATAAGTTTTTGTATAATACATCTAGAAACCTTGAGAATTGTATGCTTGAACGTTAGATTTTATAA
TTCAGTGTCTAGCACATTGTTTTATATGCAATAGCACTTTAAAAAAATTAGGCTACAGCAGTATAATTTA
CATACAGTAAAAATTTAGCCTCTGTAAATGTACCTCTATGAATTCGACAGATGCACAGTCATGTAACAG
CACCGCACACATGACACAGAACAGTTCCATTACCCCAAAGTCCCCTTTGTACCTCTACCTACCCCACTG
CCCTGAAAAATCACTGATCAAAACTACATAATGATTATGTGTTTTGCTCTTTAGTACGTTTTTACTTAG
ACATATTTTCTTTACTTCTTTTGAAGAAAAACCTGTTTTTCCCTTTTTATAGGATGAGTCAGTTTGTG
CTATTTTAAATTCAGTACCTTTGGGATAAATCAAGGCAAGACAAATGCTATTTGCAAAATGGGAACTTGA
GACTTGGGCTAAGTGTAAATTCATATAGGGCTAATAGATTTAGTTCTTAGCAGATTTAGATTTCTTATGT
GGTTTAAAGCTTTTGTATGAGGATATATCATTAGTTATCCTGAAATGAAATACAAGGCCATTTAAAGTTA
TTTATATCATATTAATAGAATGCATCATTCTTTATAATCTTTGAATTTTAAACTTCTTTATTTAAAAA
AAAACACTTTTTTATTATACCTGAGATTAAGAAAGCTACCTGAAATTCATATTATCAAAATAGTGAGAAG
CAAAACAGGGATTGAAATGACAAATGAAGACATTTAAATGCAGAGTGATTACAATTGCTGAAGGTAA
AATATTTTACCTTGCATAGGGCTTAGGCTGTGTCCAACCTATTTGTAGATGTGAGGATTTTAAATTTCT
GTGCTCATGTCTTGAAGTCTAGATTTTCTGCAAGGCTGAGAGTGTATAACCTTTTGTAACTAATATTTT
TCACTGTTTAAACACAGTATTCAATTCAGTATACAGTTAGGAGCCTGTTATTTGGTAGGTACTGCTAACATA
TATATATATAAAATTTGATGTCTTTTCTTTTCTTTTCTTTGTTCTATGAAAAACAGCCTGTATTTAAATAT
GTAACCTTACCTTGCATACCCAGTTACAGTGGTAGTAACAGGATATGCAGAGTGGCAAGTTTATGAGGAG
CTAGCAAACTGGATAGTTGGCCTTCTAGCTGGAATTATGACAGGCTTGTAAATGAAGGCTTTTAGTG
GAGAATCTTTGTGTGGGTGATCTTGAGAGAGGGCAGGAGAGTTAGGGTGACCTAGAAAGATAGATTGCTG
GACTTGTATATGTTTCTCAAAGCCAGACTGCAGCATTGTTAGTAAATTTGTGTGTCTACTGTCA
AACCAGGCCTGGAGGGGAGTTGAGTGCATTCAGCCTAATCTTGGATTGGCTGTGCTCATCTTGAATCC
CTTCACTCGGAATTTCTCTCTGACCCTGTCCCAATGAATATTTGAATTTGGTCCAGTTCTTACAGAGCAT
GGTCTGTGGCTGTTGTTGGTGTAGGGAAGAGCAGAACTTGTCTGTGAGAGAGAAGACACTTGAGAAGA
CTGATGAATCTCTCCACCCCTGCCTTCGAGGCTTGGTCTCTACCTATTCAAACCTTTGAAACTCT
TTCTATCCAACATAAATAAGCGCAATTTGGTTACTAGGAGAATTAGCTTTTCTCATTTTGAAGGAAAC
AGGGTTTCTTATGTACATGTTCTTAAAGAATTACATGCAATCAGTTATTAATGATGAGTTCTCTGGTGA
TTTTGGAGTGTTTATCTTCTTAATATTAATTAATTTAGGGCTTAAATTTTGTTTTGAAGAAATATA
TTTTAAAGGCTGGGTGTGGTGGCTCACGCTGTAATCTCAGCACTTTGGGAGGCTTAGGTGGCTGGATC
ACTTGAGGCGAGGAGTTCAAGACAGCCTGGCCAAATAATGAACCTTGTCTCTGTTAAGAATACAAAA
ATTAGCTGGCCATGGTGGCTCAAGCCTGTAGTCCAGCTACTCAGGAGGCTGAGGCATGAGAATTGCTTG
AACCTGGGAGGCGGAGTTTACAGTGAAGCCGATCATGCCACTGCATTCCAGCCTGGGCAACAAAGCAAG
ACTCTATCTCTAAATAAAATAAATAAATAAATAAAGAAATACATTTAAAGATAAATAATGGCCAGGTGT
GGTGGTTCATGCCTGTGATCAAGCACTTTGGGAGGCGGAGGTGGGAGGATTGCTTGAGGCAAGGAGTTC
AAGATCAATCTGGGCAACACAGTGAAGCCCTATCTCTACAAAAATTTAAAAATCAGCTGGGCATGATGGT
GCATGCCCTTAGTCCAGCTACTTGGGGGCTGAGTTTGGAGGATCCCTTGAGCCAGGAGATCAAGGCT
GCAGTAGGCCATGATCTTGGCCACTACCTCTAGCCTGAGTTACAGAGCTAGAGTATAACCCCAACCCCT
AAAAAGCTAATAAATTTGTCAACAGCTACTTATGCACATCAAGGATGCTTGTGCTTAAAGAAATCTTTT
AAATCTTTTCCATGAAATTTCTTCTAGTTGCTGCTTTGTGAGCGTGAATTTTTTACTTCTGCAGGACACA
CAAATGTGGAGCATTGAACTGAATGCTTGGGAAAGTGTATGGGAGGTTGGAAGAAGAAATAGGGATGAG
GACTTATCTCTATTCTTATCTCTCTAGACTTATCTCTCTAGTCTGCAAGCTTGAGAATATGGCATCAGG
AATATGTGGCATTTTGTCCACACACAGCTGTTGGCAGGCTACCAGCAGCCAGCTATCTGGACTAGGGG
TGATGGATTTCTGTGGACAGAGTCAAAAGTAAAAATTAGGAGGCAAAATCTTCAAGGTGGCCATAAAG
ACATTGTAACCTGTCTGGAATTTCAACCAACACTAAATGTGTATCCAGTGATATACCAATAGACTGGCT
TCATCTTCTTGGATGTGTAATAATACCTTACAGAATGCTTTCTTTTTTTTTTCTTTTCTTTTCTTTA
TTTTTTTTTGAATGAAGTTTGTCTTGTGCCCCAGGCTGGAGTGAATGGCACAATCTCAGCTCACTGC
AACCTCCACCTCCCAGGTTCAAGCGATTGTCTGCTCATCTCCCGAGTAGCTGGGATTACAGGCATGT
GCCACCATGCCCGGCTAATTTGTATTTTTAGTAGAGACGGGTTTCTCCATGTTGGTTAGGCTGGTCTC
AAACTCCCGACCTCAGGTGATCTGCCACCTTGGCTCCCAAAGTGTGGGGTTACAGGCGTGAGCCACT
CGCCCCGGCTCAGAATCTTTTACAGACATCATCTCATTTTCAACCTCAGAGCACCGTGAAAAGGTACAG
CACCAATAGGTAGTCTGATTCTACTGAAGAAGATGTGGCAGCTCAGGGAGTTTGTGGATTGTCTAAGAT
TGCTTGGCTTTTCAAGCAGAGCTGGGGCTAGAATGAATGTTCTGCTCTATCCATTGATAGAATATACATAA
GAACAGGCTTGATGTTGGCTGACCTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTTTGTCTTGTACCT
AGGTTGGAGTGCAGTGGCGTATCTCGGCTCACGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTG
CCTCAGCCTTCTGAGTAGCTGGGTTTACAGGCAAGCGCTGCCACACCCGGCTAATTTTGTATTTTGTAGTA
GAGACTGGGTTTCTCCATGTTGGCCAGGCTGGTCCGAACCTCTGATTTAGGTGATCTGCCACCTTGG
CCTCTCAAAGTGTGGGATTACAGGCATGAGCCACCCGCGCCCGGGTGACTGATTTCTTATTAAGTAGAT
TTACAGGTGCTTTGATAAAAAACAGCTAGTCTTGGCTGGCAGCGTGGCTCATGCTGTAATCCAGCAC
TTTGGGAGCCCAAGGCGGGTCAAGAGGTCAAGAGATCAAGACCATCTGGCTAACATGGTGAAACC
CCGTCTCTACTAAAAATAGAAAAATTAGCTGGGCTGGTGGCGGGCACCTGTAGTCCAGCTACTTGA
GAGGCTGAGGCAAGGAGATGGCTGAACCCGGGAGGTGGAGCTTGCAGTGAGCCAAGATTGCACCACTGCA
CTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAGTGTAGTCTTTTGGAGT
GTTTTTCTGCCATTTCTAGGGCCAACTTTTTCTTGTCCATGAATCATTGTCAAAATTTGGGAATTTAAA
TACTACTTTTTCTTTTAAATCAAAAGCCATAGTATGTTTCCAGCCAGTACATTAGAACACCATGCACG

FIGURE 1, sheet 20 of 66

ATCCCATGTGTACAAAAAGCTTCTGGCTGAATTGAGATGTGACCTGAGAGGGCCAAATACAGGGGTGTG
TGCTGGGAGAGAGAGAGAGAGGTCTCTGGACAGAAAAAGCCTGTTACCACCCAGGATATGGACCAACT
ATTTTAGGTTATGGTGACTAAAGAAATTTGACATGCAATAAATGAATAATCTTAGAATCAGGATGTCT
GGGTACTGGTTCTTTGGTTGGCCAGGTGAAATTCATGCCAGGCCCAACAATTAACTCTTTAGAGACAA
TTTTTCTCTGTTGTACCAAGACATTGTACTGAGGCCATGTTGAACATTCATCGATGTGTTGGGAAAC
TCTGCCCTACAATGTTAAAGAAATTAATCTTTTGGGGAGTCTTTCTTTGACCAGTTTATATCTCTGTT
TTAGAGGAGGGCTTCTCAACCAGAAATGGGTTTGTGACTTATTTTACAGACCTCTGGTAGAAAGGAGGT
CTTTTTTGTCTACCTGTTCTCTGTCTCAGAGAATATTACAATGGTGTAAAGTTCATCATTTCTTCCCT
TATTATGGCTCTGCTTAGGAAGAAAACTCTTTGCATTGGCTACCAAGTACCTAACTATTCAAGATGCCA
CTGACAAAGAGTTAATCTGTGAATCATGTGAATCTGATATATCTGAAATATATCCAAACAAAAAGCACCT
AGCCTTTTAAATGACTCTCCAGAGTCAGTTCTCTAACTTTAATTATCATCTTCTGGGGATATGTGAAA
TTCTACAGAAGTTGATTGGTGATATGTTGAGATGTGAGATCTGTATTTCTAAGCAAAGTTGCCATGCAC
CTGATTTGGCTAGGTGATATCTCTGGCATTGTCTATTGTTGGTGGGGTCTGATAGTTGGTTTACCAC
TGCTGGGTACCCAGAGTCATCACATCCATAGAGACAGAAATGAGGCTGGTGGTTGCCAGGGGCTGGGGGA
AGGGAGGAGTGGGGAATTTGTTTAAACAGAGAGTTTGTAGTTTGAAGATGAAATGAGTTCTAGAGATTGG
TTGCACAATAATGTGAATATCCTTAACACTACTGAACTTTATACTTAGAAATGGCTAAGATGGTAAGTTT
TATGATGGCTCTGCTTAGGAAGAAAACTCTTTGCAATTTGCAATTTGCAATTTGCAATTTGCAATTTGCA
TCACACCTGTAATCCCAGCACCTTTGGGAGGCTAAGGCGGGCAGATCACTTGAGGTCAGGAGTTCAAGACC
AGCCTGGCCAAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCTGGCCTAATTTGTGCATG
CTTATAATCCCAGCTAATTTGTAGGCTGAGGCAGGGGAATCGCCTCAAACCTGGAGGTGGAGGTTGCAA
TGAGCCGAGATCACACCATGCACTCTCCAGCCTGGGTGACAGAGTGAGATTTCATTTCAAACAAAAA
CCACTTTAGAACTGCTAGTTTGGCAATAGTTATCACTATATGTTTATCTGCTATTTTCTGTTAAG
AATAAGGAATGTTTATGTTGATCAGGAATCTAAGTAATTAATAACAAAAATCTGGCTGGTGGCTCTCG
CTTGTAATCCCAGCACCTTTGGGAGGCCAAGGCGGGTGGATCATTTGAGGTCGGAAGTTCAAGACCAGGCT
GGTCAACATGGTGAACCCCATCTCTACTAAAGTACAAAAAATTAGCTGGCATGGTGGTAGGCACCTG
TAATCCCAGCTACTAGGAGGCTGAGGCAGGAGAAGCACTTGAAGTCAAGAGGCGGAGGTTGCAGTGAGC
CAAGATTGTACCACTGCACTCCAGCCTGGGTGACACAGCGAACTCCATGTAACAAAAAATGAAATATA
AAATTCATACTCATTATTAATACATATAGTATTAAAAATAAAACCCAAACACCAACCTTCCTTGATCC
TATATCCTTCTCAGCTACCATCT
AAGTGGTACCATTGTTGTTAGTTTCT
GCTCCCTGAAGGAGGCTGATGTCCAGAACTCCTTGAAGTCCCTTTCTCTCAGCATACTACCATGCCTTA
CTGCAGCACCCCATCTTTAATGTCCTTGACTTGGTGAAATATTACATTTTGAACACATTTCTCACTT
CCTTATGACAAATATTGATTGAGTTTCACTTTCAGTGCAAGGTGAGTAAGAAATGGTACTTGTCTTCAAGGAC
AAAACTGAAATTTCTCTTTCT
CTGTCACTTGGGCTGGAGTGCAGTGGCAGCATCTCAGCTTAATGCAGCCTCCGCCTCCAGATTCAGTGA
TTCTCATGTCTTAGCCTCTCGAGTAGCTGGGACTACAGGCATGCACCAACAGCCTGGCTAACTTTTGTA
TTTTTAGTGAAGATGGTGTTCACCATCTTGGCCAGGCTGGCCTCAAACCTCTGACCTCATGTGATCCAC
CCACCTCGGCCTCCCAAGTGTGAGATTACAGGCATTGACTTTACTTCTTACTCTCTCTATGCACCTCTA
TCATTTTGAAGAAGGTTCAAGGTAGTTCTGATAAGCAGGATTAGGTTGTATGTAAGTGAATTAAGGGG
TGCTATGAGCAAAAAAGTGTGAAGGTATAACAGCCAAACCTCACAATGCAGTTTGCATGTTTCTTA
ATGGACATAGCAGGTTTCTGTAAGAAACAGCAGGAGATTCTGTGTGAATGATGGGTTGAGGCAACATA
GTGGCATCCCTTGAATGCTCGAAGAAATGTGACTTAGAGTTTGGTGGGAAGCAGAGAGCTGGGTTTAAAGA
ACATGAATCTGACAACTCTATGGATCTGGAGGAGAAGCTAATGGGGACGAGGAGCAGTAAGAAGCCTGT
TACAGATGCACTGATAAGAAATATGAGAGCTGGCCGGGCACAGTGGCTCACGCCTGTAATCCCAGCACT
TTGGGAGGCCGAGGCGGGCAAATCACAAGGTGAGGATTTCAGACAGCCTGGCCAAACATGGTGAAACGC
CGTCTCTACTTAAAAATACAAAAAGTTAGCTGGGCGTGGTGGCGGGCGCTATAATCCAGCTACTCGGGA
TGCTGAGGCAGAAGAAATCGCTTGAACCTGGAAGGTGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCAC
TCCAGCCTGGGTGACAGTGCAGAGCTCCGTCTCAAAAAAAGGTAATGCGATAATGAGAGCT
TACTTCAAGATGGCAGCAAAAGACAGTGGAAAAAGGCATTGGGAAAAAGGCAATGTGCCTTGATGAG
TAAAGTTAAGTGAAGTCAAGGGGAGAAAGTCAAGGTAAGTATGATGGGCTTTTCTATTAAACAAAAAGG
AAATGAGTGGTTTTTGGGAAAGAAAGTGAATTAACCTCAGATATTGATTAATTGTCTATTACTGTG
GCCGGGCATGGTAGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAAACAGGCAGATCACTTGAGGT
CAGGAGTTCGAGACACGCTGGCCAAACAGGTGAAACCTGTCTCTACTAAAAATACAAAAATTAGTGTG
GTGGTGTATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGACATGATAATTGCTTGAACCTGGGAGGCAG
AGATTGCAGTGAGCTGATATGGCGCATTGCACTCCAGCCTAGGCAACAAGAGTGAAACTCCATCTCAAA
AAAAAGATTGCTGTAATCAGCCAGCACCCCCAGCCTTGTGCTCACTTTACATACAAAAATCTGTTT
TTTAGAGCATAAATGAAGGCGACATTCAAACCTGATACGTAGGCCAGGCATGGTGACTTATGCCTGTAA
TCCCAGCACTTTGGGAGACCGAGGAGGTGATCACTCGAGATCAGGAGTTTGAAGACAGCCTGGCCAAAC
GTGGTGAACCCCATCCCTACTAAAAATACAAACAAATAGCCAGTCACAGTGGTGCGCACCCATAGTCT
CAGCTACTCGTGAGGCTGAGGCAGGAGAATCACTAGAACCTGGGAGGCAGGAGGTTGCAGTGAGCCGAGA
TCATGCCACTGCATCCAGCCTGGGTGACAGAGTGAGACCTGTCTCAAAAAACAAGACAAAAACCAAAAC
AAAACAAAACAGAAAGCAACAGATTGATAGTGAACAGTACACTGGTCAGTCTCTTACGCTAATACC
CATTGTTTTTTATTATTGGAGATTCAATGTGTTTCTTTCTTTTAAAAACTTTTTTCGGAATGGTAA
TTTCTCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACAGGGTCTCACTCTATCACCAGGCTGGAGCGC
GGTGGCACAATCTCTGCTCACTCAACCTCTGCCTCTCTGGGCTTGGCAATCAACCTCAGCCTCTTGAG
TAGCTGGGACAAACAGGCACATGCCACCATTCTGGCTAATTTTTAGTAGAGACGGGTTTACCATGTTG
CCCAGGCTGGTCTCGAACTCTGACCTCAAGTAATCTGCCACCTCAGCCTCCCAAGTATTGGGATTAC
AGGCGTGAGCCACTACGCTTGGCCTCATAGCGTATTTAATATTGGTTGAGACTAGCCTTGCTCATTGAT
CTTCTCTTAGCGTTTACTTGGTTATTCTTGCTTATTTTCCATAAGAACTTTCATTTTTATTATCTCTG
TGTTTTTTGGTTTTTAAAGACTATTTTATAATAAATTTCTGATTAACCTTTGTGCTTAACTCTTGAT
TAAACAAACAGCAATGAAGAGATGAATGAAGCAGAAATGTGAGTTTCATGCCTCACATTCCCACTCTCT

FIGURE 1, sheet 21 of 66

CTGAGGTTAATATTTTCATGTATATTTTCAGGATGTATTGTAAATCTCATACAAACGTATGTATTTTTT
TAATGAAATATTTAAATTTTCATAGTTAAACAGCTGTAGCTCTAAGTGGCAATATCTTCTGTGTTTCTT
TACAGCCATTATCTTGGCCACGAATCTTTGAGAACATTATAATGACCTTTGTGCCTCTTCTTGCAAGGT
GTTTTCTCAGCTGTTATCTCAAGACATGGATATAAAAACTCACCATCTAGCCTTAATTTCTCCTTCCTCC
TACAACTGCAGTCAATCCATCTTACCCCTGGAGCACGGCTCCATATACATACCTTCTCTATGTAGACA
GCCACCATGAATATCCAGCCATGACATTCTATAGCCCTGTGTGATGAATTACAGCATTTCCAGCAATGT
CACTAAGCTTGGAGGTGGGCTGGTGGCAGACCAAGCCCAATGTGTTGTGGCCAACACCTGGGCAC
CTTTCTCCTTTAGTGGTCCATCGCCAGTTATCACATCTGTATGCGGAACCTCAAAGAGTCCCTGGTGTG
AAGCAAGATCGCTAGAACACACCTTACCTGTAAACAGGTAAGTCCAGTCTTCATTCTGAATTATAGTTGC
TAGCCATTTCTCAAATCACTTTATGGTTGAGTGAGAAGGAAATAATATGTAGACAAGGTCTTTATTGTA
TTAATTACATAGTTTACTTACAGCACCCAAACACAGGATGCCCTGTTCTATTCTGATATTTTAGTTCTC
ATTAAAACTGGTATGTATACATCAGTGTGTGGGAGAAATTTGCTATCATGACTATTGTCTTTATACAG
TAAATCTGGACTTAAAGTCACTCTTTCTTTTGTGAGACAGGTTCTGCTCTGCTACTCAGACTGGAG
TATAATGGCAGATTGGGCTCACTGCAACCTTCACTCTGGGTTCAAGCAATTTCTGTCCTTAGTCT
CCCGAGTAGCTGGGATTACAGGCGCTGCCACCACGCCAGCTCATTTTTTAAATTTTAGTAGAGACAG
GGTTTACCATTGTTGGCTAGGCTGGTCTTGAACCTTCACTCAAATGATCCACCTGCCTTGGCCTCCCA
AAGTCTGGTGGTGAACACTATTGAAGTTTAGGCTTCAGTTGACATTCCCTGAAGTTAAAGGATATGTGT
TTGGATTGAAAAATGAATTTTACTTTTACTTTTCAAGTCTTCTTATAGTGAACACCAATTTA
ATGTTTATGACAAATGTTTCCAGGATAAAAGTAAGTGTGATAGTATTACAACTAAATGAAATTTCTAGA
CATGCGAAGCATGAAAGATAGATGATTGGTATAAGCTTTTAACCATGAACATAAATAACATTATA
TAAAGATTGGTGAACACTATTGAAGTTTAGGCTTCAGTTGACATTCCCTGAAGTTAAAGGATATGTGT
ACTCTTTAAATGCAAGGTAACATAATGGATTATTTCCATCTAATTATTAATTTTCTAATGATAATCATA
GGTATGAAGGGATGGATAGTATAATGAGAAAGGAGAGGGGAGATAAAATCTAAAGTACTAAGGGCA
TGTTGGATATTGAAATCACTACTTTCAAATATTATCATAAACTTTGAGACAGTAACATTGCACCATT
TTTTCTGTTCTTTTAAACACTTTTACTTATGGTAAAGAGATAAACAATTTGGGATAACTTTTTTAA
GTAATGGTTTGTTTTTTTTCTCTCTCTCTTAAAGGAGACATATTTGTTCTGAGCATGAATTA
TAATCAAAGTTCTGCTAATTTTTGGGCAAATTAATCCATTATATAATTACCTTCATTATAAATCAATAA
TACCTTTTACCATTCCCTTTCCAAAAGAACCATGCCTGGCAACATCAGGAAGTACCCAGATGTGTTTGA
GGCTGCCCTGGGATCCCTTGTAGACTTTTCTGTTCTTTATGAACCTTCTGCTGTGGTCCAGCATGAG
CCTCTGCTCTCTTCCAAGCCTTTCCAGGCCAGGCACCTGCTGTTCTCTCTCTCTCTCTCTCTCTCT
TTTTCT
CATTTGTTATTCTCTTAAAGTTATTTTTATTTTTATTTTTTGTAGATGGAGTCTCACTCTGTTGCCAGG
CTGGAGTGCAGTGGCAGCTGTGGCTCACTGCAACCTCTGCTCCCGGGTTCAAGCAATCTCCTGCTTC
ATCCTCCAAAGTAGCTGGGATTACAGGTGTGCACCACCATGTCTGGCTAATTTTTGTATTTTTAGTAGAG
ATAGGGTTTCACTTGTGGCCAAAGCTGGTCTCGAATTTCTGGCCTCAGGTGATACGCCCACCTTGGCTC
CCCAATGTGCTAGGATTACAGGCATGAACATTGCGCCCAACCTGAAAGTTATTTTTAAATCTAGACCTTT
ATCTGAAATGTGAGATGTGAGTGTGTTGTTCTCCATTAAATGGGAACCTCAAATGTCTGAAGGGCTGC
TTAGCAATGTGTTGGGAATGACTGATGTTTGGAAAGTGGTTGAATGCCTTCACCCCATCCATGCAGCAT
TCGTGAACCTAGTAACACAGAGACCAATGCATATCTGCTGTGGTTCAGACCTGTGGGTAAAGATT
GATCTGGCCACTCTTTTATTACACTTAGAGATGTAGCTCCCAACCCATGGCTATGACTGGTCTTCGGCA
GTGACAAATGCTCATCAGCATCAGCTGTGGCATAAACTCACTACCCACTTTCAAACATTAGTCAAT
CCCCACAGCGTGGCTCTTTGTAGATATGATATCAGTATCAAAGCTTTGCTGTATCAGATTTCCGGGAAT
ATATTTACCAGGAACCTGGAGGAAAAAGAGATTAAATAGGCAATGTTATGCTATTTTTTTTTCTAG
AAAGCCCTTCTTTCCCTTTTATGCTCTGTTCAATGGATATTTCTTTGCTCCCTAGAGAGACACTGAAA
AGGAAGGTTAGTGGGAACCTGTGGCCAGCCCTGTTACTGGTCCAGGTTCAAAGAGGGATGCTCACTCT
CGCTGTCTGCGACGGATTACGCATCGGGATATCACTATGGAGTCTGGTCTGTGAAGGATGAAGGCCCT
TTTTAAAGAAGCATTCAAGGTACAAGAGAAATGTTAACTGCTCTTTAGTTTCCTACTTTTGATTTCAA
ACAATTTTGCAGAGATGACTTGGCAGAAATGTCACTACTGGCTGTTTGGCACACAAAGTATTTGATGAG
CAGTTCAGAGGATCATGTGTTTGGAAAGTGGGTGGGTGGTGGGTGGAAATGTCAGATTTCTACCCAG
AACCCCAAGATTATACAGCAACTCGAATGGGTCTTACCCCTCGTTCACCCCATGGGTGTTGGATAGAA
GACATCGAGTTACAACTTGTGAAGATGCTCTTGGAAAAATGTGCTCACAAGGAGTTGCAAGATTGT
TTCTTTCTTTTACTTAAATTTAATATATAGCATGCTTAACAGTCATGATGGTGGGCTGGCTCCTGAGGAA
GAAAGAATAAACACATTTTTTGGAAATGGTCAGAAATCAGGAATTGAGTACAGTGGACTTTGAGAATTG
ATCTAGACACATTTCTTCCCTAGGCTAGGAGGGTCTCAGTTTCAAAATCCCTTGTTTTCTGGGCTGTGT
TTAGATTATTTCCCTAACTTTCTTAAACGCCCTTCTGGATTTTTTTTTTAAATCAACTTGTGTGATGAAA
AGAATCAAACCTCTGTAATAATTTGAAGAGATTTATTTCTGAGCCAAATATGAGTGACAAATGGCCTGTGA
CATAGCCCTCAGGAGATCTGAGAACATGTGCCAAGGTGGTCAGGCCACAACCTGGTCTTATACATTTTA
GGGAGACATAAGGCATTAATCAATGCATGTAAGATGTACATTGATTACGCTGAAAAGGCAGGACACCTG
AAAGCAGGGGCTTCAAGTCACAGGCAGTTCAAAGATTTTCTGATTGGCAATTGATTGAAAGAATTATTA
TCAGTAGGAAGCAATGATTGGGTACAAATAGGGATTGTGGAGACCAAGGTTTTATCATGCAGATGAAGC
CTCAGGTAGCAGGCTTCAGAGAGAATAGATTGTAATATTTCTTAGGGTCTTAAAGGGTCTGTGCTAT
CAGTATTTCAAAGGGGAGGGATATAATGAACCATGTCTGTCTCCCTTGTTCATCATGGCTTAA
CTTATTTTTCAGGTTAATTTGTAATGCCCTTGGCCAAGAGGAGGGACCCATTGAGTGGTTGAGGGGCC
TTAGAAATTTATTTTTTGGTTTATAAACTTCAAGTTGTGCACCCTGATTTCAGGCTGGTCAGCTCATC
TCCCTGCATGGTCTTTGCTACACTCCTTCTCTGTAACAGCCCTGATTGCTGAAGTCACTTTCTGTCT
TACTCTTGTCTTCTTATTTGCCCATAACTGTCCCTCACTGCTCCCTCCAGGCAACACCTTATGTT
TCCATCTGAAAGCTCCCTTCTTTTCTATCAAAGCCCCAATGCTTTGTTCTTTGCCAGTTAAGAAAAAGC
AACGTTGAGAGAATTCATAGTGTGTAATGGCAATAGCAATTTACTAAATTAACCTACCCATTGATAAC
TCTAAGAGGATGTTTTTACTTAAAGCAGAGAAATACTGATAGAATCCAGGATATGGTGAGGAGTGAATGT
TGGTAGTCACTTCTTACCTGTCCCTGAAATTCACCTGTATGAATGGCAGCCTTTTGTCTGGATT
TATAATTACTAGCTCTGCGACTTCACTCCTAGCCTGTTTCTCTCTCTGTGAAATGGAGATACTCATAGG

FIGURE 1, sheet 22 of 66

FIGURE 1, sheet 23 of 66

AAGAAGTCTAATTATCCTAGTTTGCTGATGATCTTATATTTGGAAAAATTGAAAAATTCACCAAAAAAC
TATTAGATCTAATAAATTCAGTAAAGTTGCAGGATCAGTAGCATTCTATATGCCAACAGCAACAATCT
GAAAAAAATCTAAAGTGATCTCATTACAGTAGCTACAAATAAAATACCTGGGAATTAACCAATAAG
TGAAAGTTCTCTACAATGAAAACTATAAAACACTGGTGAAAGAAATTGAAGAGGACAAAAAAATGGAAA
GATATTCCATGTTTCATGGAATGGAGGAAATTAATATGTCCATACTACCCAAAGCAATCTACAGATTCA
CAATTTTATCAAAATACCAATGATATTTTACAGAAATAGAAAAACAACCCCTAAAATTTGTATGGAAAC
ACAAAAGATCCAGAATAACCAAGCTATTCTGAGCAAAATATCAAACTGTGGAAGAATCACATTACCT
GACTATAAATATACCATAGAGCTATAGCAACCAAAACAACGTGGTACTAGCCTAAAACAGACATAGGGA
TCAATGGACAGAAATAGAGAACCCAGAAACAAATCCATACATCTACAGTTAACTCATTTTTGAATAAGT
CTCTTCAATAAATGGTCTGGGAAAACCTGGATATCCATGTACAGAAGAATAAACTAGATCCCTATCTCT
CACCATATACAAAAATCAAGTCCAGATGGATCAGTGACTTAAATCTAAGGCCTCAAACATGAAACTACT
AAAAGAAAAACCGGGAACCTCTCCAGGACATTGGGTGGGGCAATATTCTTGAGTAATAATACCAAC
AAGCAGGCAACCAAGTAAAGTGAAGTGACAAATGGAATCAGATCAAGTTAAAAAACTGCTTGCATGGCAA
AGGAACAATCAATGAAGTGAAGAGACAACACAGAAATGGGAGAAAATATCTGCAACATCTGACAAGGT
ATTAACATCAGAATATAGAAGGAGCTCAAAACAATCTACAAAAAACTTAAAAATCCAATTTAAAAATG
GGCAAAAGAGCTGAGTAAACATTTCTCAAAAGAAGATGTACAAATGGCAATGGGTATATGAAAAGGAT
TCAATCAGTCAATTTATCAGAGAAATGCAAACTCAAACTCAATGAGATACCATCTTACCCAAAGTAGC
TTATATCCAAAAGATGGGCAATAACAAATGCTAGTGAGGATGTAGAGAAAAGGGAACCCCTGGTATACTGT
TGCTCAGATTGTAAATTAGTACAACCTACTATGGAGAACAGTTTGAAGTTTCTCAAAAACTACAAATAG
AGCTACCATATGATCCAGCAATCCCACTGCTGGGTATGCACCCAAAAGAAAGGAAATCAGTATATCGAAG
AGATGCTGCGACCTGACCTGTTTGTGTCAGCGCTGTTCACAATAGCCAGAGTTTGAAGCAACCTAAGTGT
CCATCCACAGGTGAATATAGATAAAGAAAATGTGGAACATATACACCACTATTCCGCCATAAAATGAATG
AGATCCTGTCACTTGCAACAACACAGATGCAACTGGAGGTGATGTTAAGTGAATAACAGACACACAAA
GACAAACCTCCCATGTTCTCACTTATTTGTGGGAGCTAAAAATAAAAAACAATTGCAGTGCCTCATGCCTG
TAATCCTAGCATTGTTGGGAGGTGCGAGGAGGAGGATGCGCTGAGCTCAGGAGTTCCGAGACCACTGGGC
AACACGGTGAAACCCCTGTCTCTACTAAAATACAAAAAATTAGCTGGGTGTGGCGCATGCGCCTGTAGTC
CCAGCTACTCGGGAGGCTGAGGCGAGGAGAATTGCTTGAACCCGGGAGGTGGAGGTGCGAGTGAAGTGA
TCATGCCACTGAATCCAGCCTGGGTGACAGAGAGAGCTCCGTCTCAAAAAAGAAAAAGAAAAAC
AATTGAACCTGTGGGATAAAGTAGCAGGTTGTTGTCAGAGGCTAGGAAGGGTAGTGGGAGTGGGGAAA
GTGGGAGTCCAGCTACATGGGAGGCTGAGATGGGAGGATTGCTTAAGCTCAGGAGGTGGAGGTGCGAGT
GAGTTGAGATCACACCACTGCAACTCCAGCCTGGGCAACAGAGGGAGACCCCTGTCTCGGAAAAA
GATGATAAATCAAGTATTTTAAATAAATTTGGGCCATACTAGAGATGTTATTGTTTGAATCAAAATAT
GAAGTATAGTTAATAATATAAGTGTAAATAGAGAAAAGGAGCCTTAGAAAGCTTGAAAAACATCGTTGTA
CTTCATATACATCTTCTTGTCTACATTATAATGGACAATGCTGCAACAAACATGGAAGTGCAGATATCT
CTTTGCAACATGAGAGATTCATGTAGATCTAAGAGACTGTGAAGACTGTTTCAATATTGGAGTTACAATT
AGCTTTTTAATTACCTCTTCTGGCCAGCTGTGGTGGCTCACGCTGTAATCCAGCACTTTGGGAGACCA
AGGCGGTGGATCACTGAGGTGAGGAATTCAGAGCAGACTGGCCAACACGGCCAAACCCCGTCTCTAC
TAAAAATACAAAAATTAGCTGGCGTGGTGGTGGTGGCTGAATCCAGCTATTGGGAGGCTGAGGCAG
GAGTATCACTTGAACCCGGGGGCGAGAGGTTCAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
CAACAGAGGAAGGTCTGTCTCAAAAAAATAAATACCTTTTCAATTGTTGCTAATGTGTAGAATTCT
GCATGAACATGTCCAGTTTAAAGAAATGATTATAGAGCAATCCCTGTGTAACAGCGCTCAACAAATGA
AATAGAATATAATGGCAGCCAGAAATCCCTTTGGGTGGTCCCTGCCACACCTACTTCCCTCCCTGCA
GAGGTGGGACAGTCTCTCTTCTGCTTCTGCTGTGTATGGTTTTACCACCTACACGTGCATCCCTAA
ACGATGCAAGTTGATTTTCTCTGTTTTTGAACCTTATGTGTTGATGCTTCTACATATATTTGTGACTT
TTTTCTTTTATGACTTGCTCATTATATCATTTAGATTGATTTATTTCTCGCACTGAAATCTCGGT
CTTATAGGCTTAATGTAAGATGTTGAGGCCATATTGTTTATAGAAAGGCACTAAAATGCCCTATTAC
TTTCACTTTTGTCTCTCATCTATTTTATTATAATTTCTATTTCTTAACCCCTTCTCAACCCATGTAGCT
GTCTCATCTCTCCCTACCAACACCCCATCCAGACATCTCTCATTGCAACATACAGCAGGCTGTCTATCT
GGTCTCCTGGCCTCATCAGTTTGTCTGCTCTGATTGGTTCTCGTACTGCACTGAAATAATTTTGA
ATATAAATATTTCTAGCTCTTCTTGCATAAGAGAAATTAAGTACCATTGTCTTAGAGATTGCTATATA
ACTAACAAGTTCAAACTCTTAGGATTTTACTACAATGGGCCTTATTTCTGTACTTCTGTGCTTTGAGT
TGTTTAGAGTAGCTTACTTCATAAACTTGGTCTGGGCTTTTGTGGGAGGTGAGTCTGTTCCACATGT
CCCCAGTCTCTTGGACCACTGGCTACCTCACAGGAGCTCAAGAGGCCAAGCCAACTGTTGGAGCAG
CACATCTATTGATATATCATTTGGCTATAAAAAAGTCCCTGTGGTCAAGCCCAACATCAACTGGTAGGAAGT
GTTTGTCTCTGCGCACTCTAGTACACTGCAGGGTCGCAAGGCTGAGGGAGAGAATGAAGAATTGAGAAC
GGTAATCCACCACAACCTCTGTCAATAGCAGTACTTTCTGTCAATATTAGATTGCTAATTTCTTTATTT
GTTCTTTTGTATTTTATTTGACTATGAATCCCATAAAAATATTGTATTAACCCGAAAGAGGGATAT
ATGTAAGAAATATAAGAGTTGAATTTGATGACTTGATTTACAACCTCTGAGTTCTGTGACTTGGAGCA
AATCAATTTAATGTTAGTCTTATTTCCACATCCAAAGGATATATTTTATATCTCTCTTTTGAAGATTC
TAAGAATATGCAGAGAATAACATATTAGTAAAAAACAGGATATTGAATGTTCTAGGTCTCTTTTACT
CATTAACAAGGTGACAATGTAGCTTGACTTTGGCTTTGTACCTGACTGGTCATTAAGAAGATGTCCTT
ATCTCTCAGCTGGAAGTGTATATCAGTGTGTTGACCAGGAAGAGATTTAACTAAGAGATCATAGCAATA
ATCTTTTTTTCCCTCCCACTCTGCTATAGGACATAATGATTATATTGTCCAGCTACAAATCAGTGTACA
ATCGATAAAAAACCGCGCAAGAGCTGCCAGGCTGCCGACTTCGGAAGTGTACGAAGTGGGAATGGTGA
AGTGTGGTGAGTGCTTGTCTTCCCTTCTTATGAAATATGGGCTTGTCTAAAAGCCCTGTCTCTGAGGAAC
TGGGGACAGGTAGCCGGGAAAAAGAGAAGATTTGGGACATAGTAATTAAGTATTGCGTGTGTACATTG
GAGGGGCACTGACTTATCCACAGTAACCTGCAGAGGACAGAGCTGGGGTGAATGGGAACAGATTATGGGA
GGCAGATTTTGGCCCCAGGTAGAGAAGAGCTTTCTAGAGTTCAAGTGGTCTGACCACAGAAATAGGCCACC
AGATGGGTAGGGGACTTCTAGCCACTGGAATCCTCAACAGGGCTGGGTGGCGCTGTGTCTGTGATCTT
GAAAAGTCCAGTTCTAAGGATGAAGTCGTGGTAAATGTCCATGGTTAAACTCGTGACAAAAAGTAGGA
TATCTTGTGGGTACTGGGGTAGCCATGGGGAGGCTCACACCTATCCCTCGCTAGCTTTCTAGAAGTA

FIGURE 1, sheet 24 of 66

GAAAAATATGTAGGAGTCAGAAACATAATGGAACATATGAAAAGTACATACAGCATAGATTTTGTCTATG
 ACAGTCATAGGTGTATACATATGTGTATTTAACATATTCACATACATATTCACATGTATTTTGTACAC
 TCACATACATTCGCATATATTTTATGCACAAAGAAAAGTGGAGCTTTGGTATATAACTGACAAAGATGC
 CAACACCCAGCTCTCCACCTGGCTAGATTTTGGTTCACTTGTCTGTACTCACTTGGTTGTTTATATGT
 ACTCAGAGCAGTTCTGCCTGCATTTATTTCTGTCTAGCCAGTATTTTACCTGTGGTTAATTGTAATTC
 TCTGTGTAATTTATTTGAAAATTTAAACAAAAATCCATCACTTTACTCTCTGACAATTTCTTTTTTTTTT
 TTTTTTTGAGATGGAGTCTCGCTCTGTCAACCAGACTGGAGTGCAGTGGCCCATCTCAGCCCACTACAA
 GCTCTGCCTCCCGGTTCCATCATTTCTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCCAC
 CACCACGCTTGCTAATTTTTTTTTTTTTTTTGTATTTTAGTAGAGATGGGGTTTCATCATGTTAGCCAGG
 ATGGTCTCGATCTCCTGACCTCGTGATCTGCCTGCCTTGGCCTCCAGAGTGTGGGATTACAGGTGTGA
 GCCACTGTACCCAGCCCTCCCTGACAATTTCTTAGTAGCTTTGCCTTGTGAGCATTTCTGCCCCTTTTCT
 TTTCTCTGTGTATGTAACAGATTAGAACCCTCAGCTATTATAGTTTCACTTACAGCAGAAGTTCTCTTCAT
 CTGATCTGTCTGGGGCTTCTCTAGAGTCACTGATGATCTTCATTTCCCTCTGAGAACATCCTGCCAGT
 GCCCATAGCCTCACAGCGTGTATTATTTGGTTATTCTCTCAAAACCTAAACATTTCCATTTCCACCGCTT
 CACATTATCCTTGTGAGAAACCGGTGGGCTTCTTTTCAAACCTGTTTCTACTCACTGTAAATTGTTACATT
 ATAAAATTTAATTTAAATTTACTCAACATATTTATGAATAGGAAAAGACAAGTTTGGTTTTTTCTGTGA
 AAGTTTAGCTTAAGCCGGGTGGGGTGGCTCAGCCTGTAATCCAGCACTTTGGGAGGCCAAGGCATGCA
 AATCATGAGGTCAAGAGATCAAGACCATCTGGTCAACAGGGTGAACCTTGTCTCCACTAAAAATACAA
 AAATTAGCCGGCGTGGTGGCATGTGCCTGTAGTCCAGCTACTTGGGAGGCTGAGGAAGGAGATAGTT
 TGAACCTGGGAGGTGGAGCTTGCAGTGAGCCGAGATCGCGCCACTACACTCCAGCCTGGTGACAGAGTGA
 GATCTGTCTGGGGCGGGGGGAGGAGGAAGTTTGTGAAAGTTTGAATAAAATCTTAAAGGACTAAT
 AGCTATTGAGATAGGTATGGGTGAGACTGGGGGAAAAAACCCATAAACCTTGGGAGATCCTGAATTCAG
 AATTCTTTAGAAGTATCTAGGTTCTTGTCTGTGTTTTGTTTTTAAAGAGGCTGAAACTGAAATCCAGAGA
 TAATATCTTATGTGTATGTTTATGCAGAAAAGTGAATTTGTCTAATTTGGCCAGATGCTTAAAGAGAAAG
 CCTTGGCAGCTGTGCAAAAAGATTGCAATAAATGTTTAAAGTTTAAAGTTAAACTATTTTAAAGTAGTA
 TGTGTGTGTTTTAAAAAATGATTTCCAAGTTAGTCTTAAAGATGCTTTTATTATACTAGGATCCGTGTC
 ACAGCTATTGCCCTCATGGCTCAAGGCAGTGTATGCAGGGAAGAGCATGGAGGTTGGATCCCATAGAGTC
 TATGTTTTCATTTTCGTTTCATCACTTCTGTGACTGTAAGTGTCTCAAACCTACTGAATCACCTCTTTG
 GCCCTTGGTTTTTCATGTCTCTGAACAGAGATATCTGCTTCACTTGGTTTTGTGAACAATAAGTATGAAAC
 CATATATGAAGACTTAGACAATATCTGACACTCAATTTTGTGTTTTTCCCTTCCATTTCTCTCTCTCCCTG
 AAAAATCATATGAGCTTTGATACAACACTGTTTCATGAGACAGAGTACAGAGGGATAGTTAAAGAGCT
 TTCATAGAAAAGGGAATGAGAGAAAGGTTGTTGTATTTAGCCAGAAAGTCTAAGAAAAGACTGTATTCTC
 TTTGGAGATTATGGAAGAAATGAGATGGGTTGTCACATATACAAATGGGATATTTTGGCCTTCACTGAC
 CATAGAGAAAAGATCATTAGAGATGAATTTCTTAAGTCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
 TGCTTCCCAAACCCCTCTATGCATGCTTTTTCTTCTATCAGGTTTGGAGGACTAGAGATTCTACCTGC
 TTGTTGGATCCTCTGCACCATCTGCTTCTTTTATTTTGAACCATGTAGTCTGTTATCACCTTTTTCT
 TCTGAATTTCTGATCTTGTCTTTTCTACTGAAGTATGGATGTGGTCAATATAATGGTAGGACAACACCCAC
 CTAGACTAATTTTATGGATGAACTTCAATTAAGGATATACTGAAATGTAAGGAGCCAGGAAATCCCTC
 TGAATAGCCATGTATTTGGCTATATCCCATATTTGGGACAAAGCTCAACATATTTTGGGTGCCATATC
 TTTATATACCTGCTGTATACTCTCTGTGAAAGGGATTTGATAGGTGGGTAGTATAAAATAGTGGTTAA
 AGCACCAGCTCTGGATTTAGGCTACTGCTTGGGTTAGATCCTGCTCTCTGCTATTTTCTAGCTGTGCCAT
 CTTAGACAAGTTTATTTAGCTTATGTTTGGTTCTCTCTGTACATTGGAGACAGTAATAGTTCTCTGTAC
 TGTAGGTTAGTGTGAGACATGTGCAATATGCAATGCCTGGTGCATAGAAGCTTCCAGTAGACATTAGC
 TGCCATTTAGTGTCAATTTATCACTACGATCATCATCATCTTTGGCTGGGGCTATTTACCCTGCCTAATA
 TGGAGCACTCGATTTGGTGGAGCTCTTAAGCTCACTCAGAGGCAGCTGCCAGGTTACAGTGTCAA
 AGCCACAACACTAGAAACATCCTTGATAGAAAATGAGCTCCTTGTCAAGGGCTTTATTGAGTCTAGAAC
 CCCAGAAATCACTACAGGACCTAGAATGTTAGACTTGTCAAGTGAATTTGTCAAGTAAATTTGAACG
 TATGAATTCAAATCTCTCACTTTGGGTATGTAAGGGTATATAAATCTGTTTTGTAAATTCCTTATCTT
 TATATACTCTATACTCTACAAAAGAGAAATGTATGATCAGAAAGGTGCTTTTTTTTTTTTTTTTTTTTT
 TTTTGGAGCAGGGTATCACTCTGCTGCAGCCAGGCTGGAGTGCAGTGGTGAATCTTGGCTTACTGCAA
 CTTTTACCCTCCTCGGGCTCAATTTGATTTCTCCACCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGTGTG
 CACCACCATGCTCGCTAATTTTGTATTTTGTAGAGACAGGATTTCACTATGTTGCCAGGCTAGTC
 TTCAACTCCTGGGCTCAAGTGATCCCTTGCCTCAGCCTCTCAAAGTGTGGGGGATTACAGGCATGAGC
 CACCTTGCTAGCAGAAAGGTGCTTTTTAAACTATACATTTTGCAGCAAACCGCCATGGCATGTGCATA
 CCTATGTAACAAACCTGCATGTTCTGCACATGTATCCAGAACCTAAAGTATATTAAAAAATTAAGAAA
 AACATACATTTTGTCTCATTTTATCTCTGGGTGTATAATTGACCTTAGCATTTCTGCTTGATTACTAATAAA
 ATGAATTTGATTTTAGGCTTTAATTTCTTTTACAGTAAATTTGGTTCAAATTTTCTGAATAAATAGAGC
 CCTTTCTTCTACTATAACTAGTCAATGTTAAGAGGAAATTTGACAAATTTTCTGGGAGCCAATAATTT
 AAATTTGCTCAGATTTTCTAATAATTTATTTTAAAAATGTAACAATTTGATTTAGTGAATAACAT
 AATGATGGGTGTATAAAACCAAGCATTTTGCAGATTTCAACTTTTAGGGTTTCTTTTTTAAAGGAAAT
 CATATAAAGTTATAACCATGCTAATGACATCCTTACTTACACATGTCTTTCTTAATTTCCATTTTACA
 TTTTTTGTCTTTAACCAGTGAACCTTATAAAGATGTTGGTCTCAAATGTATAGGGATTTGGAAGTTAT
 ATTTTTGTTGTTGATTTCATTTTCTTATCGTCAGAGAATATGATCTGAATAATACCTATTTTAAAGATT
 TTCTTCATTTGCTAGCATGTGATAATTTTGCAAAATATCTATGGCCTTTGTAGATCAAGCTTGTAAAT
 ATGTGGTTCAAATATTCTGCATTTCTGACTTTTTGTCTCTTTCAGCTGTTGAGAGAGAGATTTAAATAGCCC
 GTTATAAATCTGCATCTGTCAGTTCTCTTTTTCTTTTCAAGTTACTTTTTGTATTGTGTTTGGAGGCTGTG
 TTTTATTGTTGTCTATTTATTTATTTATTTATTTTCAACCAAGTCTTGTCTGTCAACCAGG
 CTGGAGTGCATGGCAGGCTCTCGGTTCACTGTGCCTCCTGGGTTTGTGCGACTCTCTGCCTCAGCCTCT
 TGAGTACCTGGGACTACAGGAATGCACCATGCCTGGGTAAATTTTGTATTTGTAGTAGAGATGGGGT
 TTTTCCATTTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAGGTGATCCGCCACCTTGGCTCCCAAT
 TGCTGGGATTACAGGCATGAGCCAGCGACCTGGCCTTGTGTTTTGAAGTATATGAGTTAGAATTAT

FIGURE 1, sheet 25 of 66

TTATCTTTTTAAATATTCTAGCGATGAGTCTCCTTATCTATAATAAATTTTTGCCTTAAAGTTTATT
 TGTCTGGTATCAATAGAGTAATGTCAATTTATTTGGTTAATTTTGCCTGTTAAATATTTTCTATCTGTC
 TACTTTGTTTTTCTATATGTAGGTATATCTCTTACACCTAATCTATGTCTAGATTTAAAAATATGTATA
 ATTTCAAGAGTCACTCTTAAATGGTCAATTTGGTATTTTTTGGTTATTGTGATAACTGATATTTGGGTTCA
 TTTCTATCATCTTCTTCTGATTTTGAATTTAAAAATTTTATTATGTATTTTCTACTTCTCCCTTTTAGGAGTT
 GATCACATTTTATGTTTTCTTTTCTTTTGTAGTTTAAAGTCAACATCTGTTTCAATTCCTT
 TTTATCTTTTGGACAGAGTCTCGCTGTGTACCCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCACTG
 CAGCCTCTGCCTCCAGGTTCAAGTATTCTCCTGCCTCACCTTCCCTAACAGCTAGGATTACAGGCAT
 TGCCACCATGCCCAGCTAATTTTGTATTATAGTAGAGATGGGGTTTACCATTGCTGCCAGGTTGGTC
 TTGAACCTCTGGCCTCAAGTATCCGTCCTTCCGCCCCACCCGCCGAAACCACCTTTGGCTCCTAAA
 GTTCTGGGATTACAAGTGTGAGCCACCATGTTTGGCCATGTTTCAATTCCTTTAATGACGTTTATGTTTT
 GTAACGTGTTCTTGATTAATTTGAGAATTTAAGCTTCTATCTTCCAAAAAAGAATCTTAGAAATCTAA
 CAAAAATCATCTTCTGATTTTGTGATTTTGTATTGTTTGTATTGTTTGGTCCACCTTGTCTTATATCAC
 TAAAACTTAATCTTGGGCCGATGTGGTGGCTTATGCCTGTAATCCAGCACCTTTCAGAGGCCAAGGCA
 GGAGGATCACTTGGAGCCAGGAATTCGAGACCAGCCTGGGCAACATGGTGAGACCCTGTCTTTACAAAA
 ATACAAAAATTAGTCAGATGTGGTGGTGCACACTTGTAGTCCCAGCTATCCAGGAGGCTGAGGTGGGAGG
 ATCTCTTGGAGCTGGGAGGTTGAGGCTGAGCTGAGCTGTGATCATGACTGTACCACCACTTTCAGCCTG
 GGTGACAGAGACCTTGTCTCTTAAAAAAGTAAATCCAAAGAACAGCATATAAATCAA
 CTTTGTCTAGTAATTAACATACAAAGTAAAGCGAGATGGTTAGTTAGATTAGCAACATTAATAATGA
 TTTTAAATGCCCAATGGGTCTGAGAAAACAGTCAAACCTATTGAGGACTGGGTAAACATAGTAAGACCTA
 GTTCTACAAAAAATTTAAAGATTAGCTGGGCATGGTGGCATATTCCTGTAGTCCCAGCTACTCAGGAGG
 CTGAGGCGAGGAGGATTGCTTGGTCCAGGAGATGAAGGCTGCAGTGCAGTATGATTGCATCATTACACTC
 CAGCTTGGGCAACAGAGCAGGACTCTGTCTCAAAAAATACAAATTAATAAGTGTAGATACTACAATCTAAT
 TTTGTGTATAAAGGCTGGGTGCAGTGGCTCACGCCTGTAATCCAGCACCTTTGGGAGGCCAAGATGGGCA
 GATCACTTGAGAAATCAGGAATTTGAGAGCAGCCTGGCCAAACATGGTGAATACATCTCTACTAAAAA
 TAAAAATTAGCCAGGCATGGTGGCGGCTCCTGTAATCCAGCTACTTGGGAGGCTAAGGCAGGAGAATC
 GCTTGAACCCGGGAGGCTGAAGTTGCAGTGCAGCAAGAAATGTGCCACTGAACTGCAGCCTGGGTGACAGA
 GTGAGACTCCGCTCTCAAAAAATAAATAAATTTTGTGTATAAAGCTGGAAAAATATGGTGGCAGGCAC
 CATAGTCTCTAGCTACGCGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGTAGGCGGAGCTTGCAGTG
 AGCCGAGATCACACCACTGCACCTCCAGTCTAGGCCACAGAGCAAGGCTCCGCTCTCAAAAAAAGGCT
 AAGAAAAAGAAAAATAAAGCATTAAAAAGACTGAAAGAGTTTATGCCAAATTTATTCTCTCTATAT
 TTTTCAGATTTTTTCACTTAATTTGTTATTTGAAATATACCTGTTTGTGTAAAGTATAAGGAAATATATA
 CATATGCACACATGCATATAAACAATTTAAGAAATGTGTATAAATAAAGTATATTATTGATACCTTTGG
 AAATATCCCATTTTCTACCTGAAGAAAATTCCTAATTTTCATGTTTGGAAACAGGTTTATGAGCACTC
 TTTATAGAGAAACGGTGTAGTATCTATAGATGACCTGGAATGGAGACCTAAAAAGTTTCTGAAAGATT
 ATGTCGTTGGTTTTGCTAGTACGGTCAAGACCATAGTAATCTTTGGTACGTGCCCCACAGGCTCCAGAAA
 ATAAAGTCAAGCTGCTTTTGGTTCAGTGCAGTTTTTACCCTGGCAATTCGAATGACTCTGCTTTTCTCTT
 CAGGCTCCCGGAGAGAGATGTGGGTACCGCTTGTGCGGAGACAGAGAAGTGGCGACGAGCAGCTGCA
 CTGTGCCGCAAGGCCAAGAGAAGTGGCGGCCACGCCGCCGAGTGGGGAGCTGCTGCTGGACGCCCTG
 AGCCCCGAGCAGTGTGCTCACCTCCTGGAGGCTGAGCCGCCCATGTGCTGATCAGCCGCCCATGATG
 CGCCCTTACCAGGCTCCATGATGTGCTGACCAAGTTGGCCGACAGGAGTTGGTACACATGAT
 CAGCTGGGCCAAGAAAGATTCCCGTAGGGCTTTCTGGCTATCAGTTTTCATGTACTTGTAGAAAGGCCG
 GCCGCTAATATTTAAGGGCAAGAGTACAAAGTAGAGTCCATGAGCTGTGCTAGATATTAAACAGGTC
 CTCAGCTGGATTTGTAACCTTTAAGTGAATATGTTCTCTCTCTGCTTGGCATACTACCTTCAACA
 AGGCGGTGTCTGATTTAGAATTTGAGACTTCTGAGTCTGTGATACCAACATGGTGAATGCAGAAAGAG
 TTTGCGGTGGCCAGCCATTTCTATTCTTGACTGCCTTCTTTTCCCATGGCTAGATGCATCCCATACCAC
 CTTGCACAAACCTATCCTGTGTGTCACATCTGCTACAGACACTCACCTGTGGCCACCTCTCATGCCCT
 AGAGGTGGTCTGGGAGGATGGACCCAGGGAACCTACCTAGGCTCTGGAATTGGGCTTGGGGTCATTTGGG
 CAAGAATCCTAGAGTCTGGAACCTGGAACGTGGTTAAATGATAGACTCCATTTGACCATTTCTTGG
 CTGTGGATTCTCTACCTTTGAAAGGAGGGGTGGGTAGAGTACAGTATGACTAGTTTGAAGTGAAGGTT
 TGTGAGATGCTAAATAGAATTTTGTAAATTTATGTTCCAGTAGAGAATCAATATTATGTACATAAATGAA
 TATGTATGGACAAACAGAGTAAATCAGTGGTTGAAGTTACACGAATCATCAATGGGCCCATAAACCTGGA
 ATGCCATCAAGTTAAAAATGAGCTTAGTTACTCATGAGTTGTCACTTGGAACTGCGTTTTTCCATCTCC
 AAAGTGATCACTTCTCTCAAGCCCATTTGTAATATATATCTGAAGTGTGTATGATGCTAAAATTACCAG
 CTAATTATCATTTGACTTGGTGTCTCTGTGGAGGAGTGAATCTAGGATTCTAACCTAGAGTGGCAACACC
 CCACGATCCCCCTGTGACAGCTTCTCCATGCTGTTCTTTACAGTCTTGAAGAAATGAAGTCTCTTATAA
 GTTCTGAGCCACTGGGGGCATTTCCATGGCCTGGAGGGCAGCGACTGCACTGGGCAAGCTGTAAAGATGA
 GGAGGGGTGAGAAGCTGGGGGAAGAGAAGTTTGGGTAAAGAGCCTGGGGAAGTGGGCTATGGTGACA
 GTATCATTTGGGGACTTTTGTGGCCTGGGCCCATTCTCTGAGCTTCTGAGGATTTTGGTTTCTAG
 TTGTATTTTGTCTAGCATCTTACCTTTGCCAGAATTTATTTTCTCTGCTTTTCCAGGG
 GAGGCAATACTGATGCACTTCTCTGATTTTGTGTTTAAATGATTTTCAACACAGATTTTGCAGGACCA
 CACATGGAGAGCAGTGGTGAATTAATTTATGCTGAAAGCTGTGCACCTTCTTGTGCCATAAGAAATCT
 GAACTCTTAACTGCATTATCTCTTATTCAGCCTGGTGTGTTGAAAGTTTTCAGGAAACGTAGACATA
 ATCTGAAGGCGTATTTTTTCTCTCTCTAGCTGGCATAGTCATTGTCCAAACCAAAAAATATATAT
 TAAATATCATCTAGCCTTGTCTTGTGAATATCTACAAGATTAAGAACCGTATCTCTCTTGGGTAGG
 CTTATTGTCAATCACTATGGGTGAGACTGGGAAGGTATATACACATTAGGAACCTAACTGAGCAAGCA
 TGTGGATTAGAAAGTATTTATCCATCTTTACATTCATAACACCATTACATTCTCCTTGGGAGGATTTG
 CGTTATAATGTTTCAAGACTTGAACCATGTGTGTTCTCTCTGCTGTAGTTTCTCATCTGTAAACAAG
 AATGATAAGAGACTGCTGCCTATAAGACATTTCTCAGAGATAGGCATTGTTACCCCATTTTCTTATAAGAA
 AAACAAAGACTTAATGGGAGATTAAGTGAACAGCTAGAAAGAGGCTGAGCTGGGGTTTGAACACAGAGTCC
 ATTTCACTCCAAGCGGTGTCTTTTGTATCATATTATATTACATGGCCCTCTCTTTTATCATGCGCTT

FIGURE 1, sheet 26 of 66

GTGAAGGAAGCCCCGGTGTCTCTGCTTTTGTCTTTTGAAGTGCTTCCCTCCCCAGAGATTACCTGTTTGCA
 AACAGTACTGTGACCAACATGGGTATTAGGTTGTGAGGACCTGCTTCGTTATATATTTGCTCTTTATT
 TATTTATTTATTTATTTATTTTGTGAGACAGGGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGCGTGA
 TCTCAGCTCACTACAGCCTCGACCTCCTGGGCTCAGGCGATCATCCCACTTCAGCCTCCAGAGTATCTGG
 GACTACAGGCACCTGCCACCATGACCAGATAATTTTCTGTAGAGATGGGGTTTCTCCATGTTGGCCAGGC
 TGGTCTCAAACCTCCTGGGTGCAGGCAATCCACCCACCTTGACCTCCCAAAGTGCTGGGATTACAGGTGTG
 CTTGGCTATATTTGCTGTTTGGGATAGAATCACCAGAAACAGTGCTTCTACCCAGAAGAAGGATCTTAA
 CACTGGATAGGAAATTTAATCAATCAGAGAAATCCTTGCAAGTTGAGGCTTGGTTTTCTGTGAGGGCTG
 GCACTGCTCTCTGCAAGCCTCCACCCCAACCTCCACCTACCCCATCCCCACCTACCCCATCCCCACC
 CCTTCTGATCCCAGTCAAGGATTGGGTGACAGGAGGCTTCTGACTGGCAGCCAAGCATCAACATTC
 TCAGTAGTGCAGAGGAATTATCAGGACACAGCTAACAAAGATCAGTTCTGAGCCGAGGTCGTAGTGCTTG
 ACAAACCTCTAAATGAAGTATATTTGTCTCTAGAAGGGTCCAAGACTGGAACCTAAGTTGCGCAGCTTAA
 CTTCAAAGTTTCTGCTTCCCTTAAATGAGCAGTTAATCAGATCTATAAAATATCAACTCCCTAATGGTTTGTG
 TTTTCTTAGTGTTTTAACACTTGCCATTCTGTCTCTACACACACAGGGAGCTGAGGAGGAGGGGTGGGGG
 TGCTCACCGCCTCTTGTCTTCCCCAGGCTTGTGGAGCTCAGCCTGTTGACCAAGTGCGGCTCTTGA
 GAGCTGTTGGATGGAGGTGTTAATGATGGGGCTGATGTGGCGCTCAATTGACCACCCCGCAAGCTCATC
 TTTGCTCCAGTCTTGTCTGAGCAGGTGAGAAAAAATACATTGTGTTTTCTCTGACTTGTGTTGAGTA
 AGGTGCTTAGTGAGTGGGAACAAAGTCTGGGTGCTGCAATTAATCTCACACTGACAGGCGAGAGGAT
 GATAGCATCATCAGCTCCTTCACTGGGTCAAGAACAGAGAGAGAGAGTGGGTCCAAGGATTCAGGG
 TCCTGTGACTCATTTTTAATCTGTGGTGCAGCAGCATTACAGGCCAGCGCTTAAATAGGGGACTGTATC
 CCGTAGGTATGTGGCCACTATGTGTATAAGTCGACACAGATTTTTCTCCATTAATAAATCCATTTTCAGG
 TTATAATCTTAAGTTGCTCTGTGTTTTTGTACCTATAGTGACCAATTATATCTGGAGCTTCTTGGACA
 GGTGATAAAATTTCTAGAAATGTGCCAAGTTTATTTTTCACATGCTTAACTCACCTTTTTGTTTTTTTT
 GTTTTGTGTTTTGTTTTGTTTTTGTGTTTTTCTGAGATGGAGTCTCTCTGTTGCTCAGGCTGGAGTGC
 AGAGTGCAATCTGGCTCACTGCAACCTCCGCTACCGGATTCAAGTGATCCTGTGCTGCCTCAGCCTCTC
 AAGTAGTTGGGATCACAGGTGTCCACCACCATGCCAGGCTAATTTTTCTATTTTTTAGTAGAGAAGTGGTT
 TCACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGCGATCTGCCACCTCAGCTTCCCAAAGC
 GCTGGGATTACAGGCGTGAGCCACCATGCCGATCTGCTTTAACACATTCTAATGCATGTACTATATAGC
 ATTTTGGCAATAGCGGTGGAAGGAAGGTTACTAAACTATATGAACTTAACAGAAAAATGGGACATGA
 TGCTGTATCTTGGTTGTGTTGATTTTCTTTTAAAGATGACACAGAAAAGGAAACAATTTTAAATGACT
 TAGTGAACTGTTTATGGAGGGAAGCTGGACTGTATAAAAACTCAAGCTTTTTAGCAGGAAAGTAGA
 ACACCCCTCTGGGTGTAATTCGAGCAGTTCGAAATCTTCTTGAAATGATTCCACATCTCTTTATGG
 AAAAGTGCTAGGTTGAATGTTTACGCCACATCTGACTCTGCATAGCGTGGGAGGATGCCTAGTGCTTACC
 CCAACTCTTGCATTATATACTCTGTACCACTTTAGATCATCAGAAGACCTGTGTTACACAGATGAAGAG
 TGATGCCCCAAGGTATCAGTCCCCATTCTGCCTTTTGTATGGTTGACAATGTTATTAAGAGCAGCTGT
 TCTGCATAATGGTGTGTTGATAGAGAACAGATCCTCTGAGAAGAGCTGGAGGACTGATGTGACTTGAACA
 GGAGCAAGCCCAGGTGGTAAACCATGGAGGAGGCTCTGGAAGACCAGAGAAAGTTCAGGGCACAAGACCC
 TTCAGTAACAAACAAAATAGTTAACCTATTGGCTGTATGTGCTTGGCAGCACCTTATGCATTTAACTTA
 TGTCACACATTTAATCTTCACAATCTTCTGCCCCCTTTGAGGGAGTAGGATCCATTATATCTCTATC
 ATTCAGATATTGGAATGGGAGATTGAGAAACCTGCTTACAGGTAGGATAATAGGTGGTGGAGCTGGACT
 TGGGGGGTTGCCAAATGGCAAACCTAATCTCTACTTTTATCTACTGTTGTTATGGGTGACAATGTTGAC
 AAAGAGCACATTTCTGCAGAACAGAGATGTTTGGTAGAGAACAGCCCTGTTTACTTGTAAACACACTGCA
 GAAACCCACTCTCCCCACTGTCATCTCAGGGTACCATGTCGCAAGGCAGGCTGAAAAGCCAAAGCACCTAG
 CCAAGCCATTGCTCTCATTCACTTCTGATTCTGCTTGGTGTGTTTAACTGGGGCCAAATATACATATGT
 ATAAATATACACATATAATTTCTTGAAGTTAGTCTAGGAACACATTCCTCCCTTGACAAATAATTT
 GCAGACTTTAGGATTATTTTATCTTTTGTCTTGTATTTCTAAATGATGCCAAATTTAGTGTTATTTTGTG
 GTGACTATTTCTCTCTGTTTGTAGTACAATTAATCTCCACTCTCCCTTCTCTGTATGCGTTCTTT
 AATTCCTGTAATGTGTGTATACATTACTATAAGTGGACACAAATCCTGGAAAAATATTAGGCCCTACCTT
 TTAGTTAATAGAAGAAAAGTTATTTTCTTACAATATTTCTAATAGACTTACACTGCCTTTATAACTT
 AAGTGAAGATTATATGTTGTAAACATAATCTAGTATATTTGATTGAGTATAGAAGAGGAATCTTGGG
 AATTGTAATGCATTGATGTTGAGCAGGCATTTTTTTTTTTTTTGGAAATGACTACTGGTGTATTGTTGT
 TGTGCAATTTCTAGTAGTTTTGTTTGTGTTTTGTTTTGTTTTGAGATGGAGTCTCGCTCTGTACCCCA
 GGCTGGAATACGATGGCATGATCTCAGTCACTGCAATCTCCGCTCCCAAGCTCAAGTGATTCTTGTGC
 CTCAGCCTCCTGAGTAGGTGGGATTACAGGCATGTGCCACTACGGCTGGCCAAATTTTTGTATTTTTTTTT
 TTTTTTTAGTGGAGACGGGGTTTTACCATGTTGGCCAAGCTGGTCTCGAGGTCTGACTTCAAGTGATCC
 CCCAGCCTCAGCCTCCCAAATTTGTTGGGATTACAGACGTGAGTCAACACGCCAGCCTACAGTCTCTAGT
 ATTTTTAACACATTAATTTCTGAACTCTGGAACCTGAACTCTAAGATAGTTTCACTTACTTAGTCTCTC
 TTATACAAATGAATATACCTTTATGTAATAGGTATATTTGTAGAGGAGTTGCTCATTCAAAAAGTCAGGA
 GTCATGCTCCATAAAGACTTCTATTACGACTCTTTTTTGCAAAGTGAAGGGAATCTTCACACCATTTGAA
 AATAACTGTCTCTGTGATTGTCCTAGCAGAGCTTCTCAAGTGGTAATATGGCTGAATAAACAGTGA
 ATACAATAACAGTTGCCCATTTGTGGATAGTGAACATAAATTTCTGTTTCCCTTTATTTCTGTTGAGG
 TGTCCACAACAGAAACTTGTGTCTACTGAGGATGAGAGGAAATCTCATTACTTCAGCTTATTTCTAA
 GCATTTAGTTTTTCTTTTACTAACCACTAAATTCATCATAAATTCACGTGAAGATCTAAGAACCTGACT
 GTCTAATGTCTCAAAAAAAGTCACATATGCAAGACATTTTGTGTCTTAGTATCAACAGGCACTGA
 CTAATGTTAAATATTAGTCAGAGGAAGTTGTATCTGGCTTGGATCCCATTTGTGGACATTTGCAGATAG
 GTCCGTGAAATGTATATGTATAAATGTCTTGAGTTTACATTACATTAGTTATTTGTATGCTAAATTC
 TTCAAGATAACCACGAATTTCAATTCCCAATTTCTAAGCCTTAAACACTCCCTGCCATTGCCATACACA
 CAGAGGTAAACCATGGTCTGTACCCAGGTGTGTGCTGCGAGCAGAGATATATATATATATACACACAC
 ATACATACAAATAGTGA
 CCCCTAAGGGAGGCCCACTATTCAACATTTTGTGTTGTATTAACAATATTCTTCTTTAGGCCAGGCA
 CGGTGGCTCAGCCTGTAATCCAGCACTTGGGGAGACTGAGATGGGTGGATCACCTGAGGTGAGGATTT

FIGURE 1, sheet 27 of 66

FIGURE 1, sheet 28 of 66

[illegible]

AAGGTTTGTGGCAATGCTGCATTGAACAAGTCTGTTAGTACCATTTTTTCCAACAGCATGTGCTCACTTT
ATGTCGTGTGCAAAATTTTGATAACACTTTGCAATATTTCTAACTTTTTTATTATATCTATTACAGTGATC
TGTAATCAGTGATTTTTTGATGTTACTATTGTAATTGTTTTGGGGTGCCACAACTATGCCATATAAGCT
GGCAACTTAACCTATAAATTTGTGTCTGACTGCTCCACCAACTGGTGGCCCCACCACCATCTGGAA
TTCTGGGAGAATTTACCATGCAATTTGAGGAAGGAATAATACCAAGTGATATGGTTTGGCTCTGTGTCCC
CACCCAAATCTCATCTTGTAGTGCCCATAAATCCCACATGTTGTGGGAGGGACCTGGTGGGAGATGATTG
AATCATGGGAGCAGGTCTTTACTGTGCTGTCTCATGATAGTGAATAAATCTCAGGAGATTTGATGGTTA
TATAAAATGGGAGTTTCCCTGCACAAGCCCTCTTCTCTTGTCTGCGCCACATGAGATGTGCCTTTAC
CTTCTGCCATGATTGTGAGGCTTCCCAGCCATGTGGAACCTGTAAGTCCAATAAACCTTTCTTTTGTATA
TTGCCAGCTCTTGGGTATGTCTATCAGCAGTGTGAAAATGGACTAATACCAAGTTTACACATACTCTT
ACAGAAAATGAACAGCATGGAATGTTTTCCAATTCATTCTGTGAGGCCAGCATTACTCTGATAGAACAC
TCAGACTAACACACTAGAAGAAAAGACAACAGACCAATTTCCCTCATGCTATATAAGCAAAAGTTC
TCTAAATTTTTTTTTTTTGGTAACTAGAATCCAAAACCTGATTAAAAAGAAATAGCACATCATGAACAAGC
AGAATTTTTGGGAATACAAGGTTTCTTTAACATTTGAAAATCAATCAAAATTCATATTACAGAATAATA
ATGAAAACCATATGATTTTATATATATATATATTTTTTTTTTGTGTTGTTGTTGTTGTTGTTTTTTTT
GTTTTTTTTTTTTGAGACAGTCTCACTCTCCGCCAGGCTGGAGTGCATTGGTGTCTATCTCAGGCTCAC
CGCAACTGATGCTTGGGTTCAATCAATCTGTCTCAACCTCCTGAGTAGCTGGGATTATAGGTGCCT
GCCACCATGCCTAGCTAATTTTTGTGTTTTAGTAGAGATGAGGTTTACCATGTTGGCCAGGATGGTCT
CAAACCTGCTGACCTCAGGTGATCCACCCGCCCTTGGCCTCCCAAAGTGCTAGGATTACAGGTGTGAGCCAC
TGCACCTAGCCATGATTATCTTAATAGATGCACACAGCATTGACAAAATCCAACATCCACTCCTGTAA
AAACACTGTACCAACAAGGAATAGAAGAAAACCTTCCCTCAATTCATTAAAGGGCACCATTAGAAAATCCTAC
ATTTAATATTATACTTAATCACAATCAGGAACAAGGCAAGTATGTCCACTGTCTTAATTCATTCAACA
TTTTACTGTAACTTCTACCCAGTGCATTAAAGGCAAGAAAAGAGGTAAGGCATCAATATTGGAAGGTA
GAAGTGAAGTCTTTATTTAAAAACATGAGAATCTATGTAGAAAGTCTTAAGGAGTCTAAAAAATGTGAA
TTTTAGCAAGTTTGTAAAGTGTAAAGGCAATATATATAAATCAATTTGATTCTGTGTGGCAGCAGTGAAG
AATTGGAATTTGAAATGAAAACCACTACCATTTACAATAGCATCAAACATTGTGAAACCTTGGGAATAA
ACTTGCAAAAGACATGAAACCTGCACACTAAACACTGCAAAATATAGCTGAAGGAAATTAAGAAATCCT
GAATAAATGGAGAGAGATGTTAATGGATCATAAGATTGATTGTTTTCAATCTATAGATTCAAACCTGA
TAAAAATCCCAGGAGGCTTTTTTGGTAGAAATGATAAGCTGATTCTTAAATCATGTGAAAATGCAATGG
ACATAGAATAGTCAAAACAACCTTTGAAAAAGAACAACTGGGAGGACTTACACTACCTGATTAGAAGAT
AATGTGGTATTGATGTCAACAGAAACAAATAGATCAATGGAACAGAGAGTCCAGAAATAATCTATACAAC
TACAGATGTTCCCTCAATTTATGATGGGGTGATTTCCCAAAAACCCATCTTAAGTTGAAAATATTGCTAG
TCAAAAATATACTTAACACACCTAACCTACTGAACATCATAGCTTAGCCTAGCCTATCTTTTTTTTTTT
TTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTGGCCAGGCGGGAGTGCAGTGGCGCAATCTCGGCTCA
CTGCAAGCTCCGCCCTCAGGGTTTACGCCATTCTCCTGCCCTCAGCCTCCCCAGTAGCTGGGACTACAGGC
GCCACCATCACGCCCGGCTAATTTTTTTGTATTTTTAGTAGAGACGGGTTTACCCTGTTAGCCAGG
ATGGTCTCGATCTCCTGATCTCGTGATCCGCCCGCCTCGGCCCTCCCAAAGTGCTGGGATTACAAGCGTGA
GCCACCGCGCCCGGCCAGCCTAGCCTATCTTAAATGTGTTGAGAATACTTACATTACCCTGCAGTTGGGC
AAAATCATCTAATAATAAGCCTATTTTATAATACAGTAATGAACATTTTATGTAATTTATGGAATACTGA
AAGTTACTGTACTGAAAAACGAAAAACACAATGGTTGTATGTGTACTGGAAGTACAGTTTCTACTGAAT
GCAAAAACCTTGACGTGAGTGTGTTCTTATCTTGGTTGTGTTGATGGCTCCACCATGTATATGTATGT
AAAGTACATCAAAATCGTACAGCAGCAAAATATGTGCAGGTTATTGCATGTGAGGTATACCTGGATGAATCTG
TAAACAATGTAATGAAAGCAAAACAAAAGATTAAAGAGAGCAAGTTTGTAGGCTAATGGAAGAAAT
ACCACCAAGCGGGGAACAAATCACAGGGTGGAGGCCCTGGAGGATAAGGGTCAGGAGAGGAGAAATGGG
GGTAGGCTCTTAAAGTCAAAAGGCTCGCAACTTCTCTATTCCATGTTAGGATAGCAGAGTTTCCAAGCGC
TGCAATTTGGTTGCTGCTAGATGGCCTTGCCAGGCTAGATAAGCATTTGGGCTGTCTGACGATGGTCTCCTG
CATAGTTTGGTCTCCTGTTTTCTGTGTATGTGACATGCTTAAGTTAGGATTATGTCACTCAATCACATC
TGCAGTGGTACAGCAGCTAGCTTGGCCAGGTCGCGGTTTGTGAGTAGTCATGTTTTAAAAGCTGCCATT
TCTGGGTTATGCATATCTACTAATAATAGGCTATAATAATGGAATGGAATTAACCTGTGTCTACCCAGCTAA
TTTTAGCTCAGTTTCTGGTATGTATATTAATGACTTCTAAATACTAAGGATGTCAAATGATTTAGATAT
AATGCTTTTGGTCTAGAATGGGATATATACTCAAATAGTTAATCAAAGGCTGATCCATGGTGGGCTTAA
GTGGAGAGGCACATATTTCTCTTGGGGAGGCAAGGAAAGGACCACAACATTTCTAACTCTCTAGCCCA
ATCCTCTTCCACTATGCATATATAGGTTGTGTGTTACTTGGAATTCCTGTATCATACTTAGCCTTTGATA
TGGCTCTTGAGAGTAAGAGACAACAGAAAAATGTGCATTTAAACACCTGTTACAATGCTTGTAGAGTG
TTTTTATAAATCTAAGGTGTTATGCAAGTGTATAGTTAATAAATAGCCTACCCAACACCCAACAGAC
AGACTGGCCATCTTGCCACCCAAATCCTCCCTTGGATAGAATTAGAGGGGGTATGGAATTTAGGAATTAG
AGTGAATTAATTACATTGATTATCCATAGTCTTTAAATATTTTAAATTAGAAACAGTCTATTTAAAC
AGTTTTAAGATTTACAAAGGATGAAACTTTTCATTAAATGAAAGAAATAGAGGGGTTAAGCCAGGAAATC
CTATTTTACATTAAGAAAATTTATTAAGAGACACTGGCTTAAACCTAGTTCCCTCTGAGTTTATAGGGAG
AGTTCCCATGGAGTGGGTGGGTGGAGAGACAAGACATAGATGGATGCTGATGAGGAAAGATGCGGGGG
TCCTTTTCTGTTGACCAAGAACACTGGGCAAGACAGTGAACAGAGCCCTGCAGCCTCACACCATGG
CACCTTTTGAGTCCCATCTGCCCTCATGTGCTGGGGGAGGAGGTGGTGACAGAGGGCGTGGGTCTAGGC
CAGAGGTTCCCTTCTCAAAGCAAAACAGCAACGCCACATACGGCTCCCAAGGCCAGGACTTCTTCCC
TTTGGTCAGTATTCTGGGACTTCTATTAGCACATTAGATTTTTCTCATTTATTGCTTTCAGTCAAGGAA
AGCTTATGTTTTTCACTCTTTGAACAATACTGAGCTGGCAAACTTGAAGGAGAGGTGGCTGTCCCCCACC
ACTGTGCTGCTCAGAAATGTACCAGGTGGGCTGGTGAGAGGAGCACACAGCTGTTCCAGCTGATAAAGG
GGAGAGAAGATTGTGTCCTTGATTTTATTTCATTTCTTTGGTATGTGTGAGGCATGGTGCCAGATCTT
GGTTTTTTTTTGTTTTTTTTTTTAACTATACTTCTCCGTTTCATCAAAGTAATTTAATTTTGTTTTA
CAGTGAATCCTAATGATGTTTTTACTTTTGGGGGATGGAGAGGGTGCTATATTTTTGTGGTTTTCTGTG
CCTGACTGGGCAGAGCTTTGGATCTTGTCCCTTGCCCCATGCTGCCAGGGCTGCCACTTAGCAAGTAC
TCTGTAGATATGATTGATGAGCAAGGGCTGAGCATGGATGTCTGAGGTGCAGGCACGCACCTGCTGAC

FIGURE 1, sheet 30 of 66

TGGAGAGCCAGGCAGCAGCATGGGTATTCTTCAGCACAGTTCTTTCTGGGAGGGTATTTCTTTCTATG
TGATCAATGAGAACAGGAGTCTCCAGGATAATTTTATGTAAGTCAGTCTTTTGTATATACACTGCCCCC
CTACCCACCATATGTAAGATGGATTTCGCATATGCCTTTCCACAACGCAGTGCCTCACCTCCCCAAAC
CGCTGTGGCTGATGGACTCTGGGCCCCAGGTGGAGCTGTGCTGCCCCACAGCCTGCAGAAAGGCCAGGG
TCTGGCCTTGCCAATGACTGTGGTTTCGTGAAGTGGGTAACACAATGACACATACGTGTTCTCTGAGGGGA
AACTTCGTTGCACACAGCCAGGGAATTTATGTTATTGTAACCTTGGTTCTGAGGCGTTCTTTTATTATT
ATTATTACTATTATTTTAGTAACAGCTTTATTGTGATATAATTCATTACCATATAATTTATCCATATT
AAGTATACAGTTCAATGTTTTAGTTTATTACGGTATGTGGTGCAACCATCACCACCATCAATTTTAGA
ACATTTTCATCACCTGAAAGAAACCCCATGCTTCTTAGCCATCATTCCCACCTCCCTATCCCACCACA
GCCCTAGGCAACCACTAATTTGCTTTTCTGACTCTATGGATTGCTTATCTAGACATTTATTATAAAT
GGAATCATACAACATGTGGTCCTTTGTGCTGGCTTATTTGCTTAGCCTGATGTTTTCAAGGTTCTATCT
GTATCAGTACCTCATTCCTTTTCGTAGCTGAATACTATTCCACTGTATGGATAGACCACATTTTGTGAG
CCATTTCATCACCTGAAAGAAACCCCATGCTTCTTAGCCATCATTCCCACCTCCCTATCCCACCACA
GAGGATTTGTTTTATATTTTCAATCTTTGCTCACTTTGAACTGAGACATGTACAGGCACACAATTTGGC
TCCTTTTGGAAATCCCAGACATAGTATTGCTTGATGGCAGCGGAAGTCCATGGAGCACATGTCTATGCAGC
TGAACACACTACGGGGTAGTTAAAAGGAAGTACTTGTATTGTCAGATGGGGTAAATTTAGGGAAGTAA
CTTTGAAATAATTTCTCTGTACTTTTGATAATTTCTGTGTGACCTAAACATACATTAGCATGCATA
TTTACCATTTCAATATGATGTGTGTTTGGCTAAAAAAATAAGGGTCTGGCCGGGCACAGTGGCTCAGC
CTTGTAATCCCAGCACCTTTGGGAGGCTGAGGCAGGCGGATGCGAGGTCAGGAGTTTGAAGCAGCCTGG
CCAGCATGGTGAACACTGTCTCTACTGAAATACAAAAATTTGCTGGGCATGGTGGCGCATGCCTGTA
ATCCCAGTACTAAGAGGCTGAGGCAGGAGAATTGCTTGAACCGGGAGGCGGAGGTTGCAGTGAGCTG
AGATTGTACCACTGCCTCCAGGCTGGGTGACAGAGTGAGACTCTGTCTCAAGAAAAGAAAAAAGAAAA
AGGTCTGTGCCCTCAAAGCACCTCATGTCCAGTCTTGTCTGAGGGCAGAAGGGTGGCTGTGGGGTGTGTGT
GGGACAAGGCAGACATCCAGCATGTGGGGCAACATGGTGTCTGTCTGAGGATGAACAGGGCACTGTCTG
AGTATCAGGGGACACCTCAGACAGACTTAGGGTGGGATGGTAGGGAGGTTGGGGGAAGCTTCCAGAAG
AATTTCTGACCAAGTTGGAATCTACAGGAGGAATGGGTATAAATGAGCAAAAGAACAGGGTAGAGAAAG
AGGAAGGAGAGAGTTTCAAGCAGCAAGTTGAGCATGTTGCGAGCACCACACATTAGGGAGTTGAGAGG
GGGACTCAAGGCAGGTTGGTGGGAACTGCAGATGAGAGAAGCGGGGAGGGCCCTGGTACCTCTGATAG
CTGCACCAAGGTTGGTGGTACTCTATCCTATGAGCTGGGAAGTCATTAAACGGAGCCCCATGACGAGATCT
GCTTTTGGCCTCTCAGAAAGGGGACACAGCGGGCCAAAGGGTGGGGTCTTGTTTCCCTGCGGTGGGAGGG
CAAGTCATCTCTGGGGCAGAGTGGGAGGTTTGGGCTGTGGGGGATTTCTGGAAGAACCATGTGGAGA
ACAAAGTGAGCAGAGGATTTGGAAGCAGCTTCAGGGCTATTGAAAGATGAATATTTAAATTCGTAT
CATCAGACATTATGGAGGTCCTTAGGGATGTGGCAAGCACTACACTTACGTAATTTGTCTTCAGAAATGT
CCCTTGCCCTTACCTGAGTTAAACTTAGTTGAATTGAGCTGCCTTAATTGAACTGAAAGTGCCAAATAAAA
TAGAGAACAAAACCTGCCAAAACAAATTTCTGTGGTGTCTGGAGCACCAGCCATCATCAGTCTCATGACAG
CCAAGACTCAGCAGCTCCCTGGTTGATTTACATATTTATCTTGTCTTGAATGGAAGCCTGGAAGAG
AAGCTAATTTAAAGGAATCAAGGAGTCAAGCAGGGGTGCGGGGAGGAGATTATCTGAGCTGTTAC
TTTGTCTGCCATTGGGATGCCACAGTATCTCAATCCTAGAGTTGGAGGGGAGTTAAACACAGGGCAGGGCA
GGATGGGGAGGCAGCCTACCCAGGACGTGGCTGTGGGGACCTAAGCAGATGTGTTCTGCTATGCTTGC
TCAGTGAGGAACCTGAGGCTCAGAGAGCTCCAGATGGTGGCTAGAAAGTAGGTCTGTCTGACTCCAAATCA
GTGGTCTTCTGCCCCAGCAGGTGCCACTCAAGCAGATGCAGAGGTGGTAGCAGGGGCCCTGCCATGG
CTGGCTGCGGCACGTGGTACACACAAGGAGGTGGCAGAGGAGGCTTCATCACATTGGCCATTCTTTTGT
TATTAACCTCCCTTATAGTGGGGAGCCCTCCGTGGGGCTAAAAGTAGAATTAATCTCACCTTCTGACCAT
CTCTGTATCTGTTGCTGCAGATGAGAAACACCAGTAATGATTTGCGGAGACTAGATATACTCGCCACGG
CAAGGCCACAATTTAGGCTGGTGGACCTTCAGGTGGCAATTTAGTCTGTCTGCATTAGGCCAGGCTT
CTCTTCTAGCTCTGTGACGGGGCTGGCTCTCAGGGAAGATCCCTGGGGGAGGTAAGACCATGCTTATAA
GCTCCTGCCACACATGCAGCTGTCAAAGCAACCCAGATCACCTCGGAGCAGGCGCACGGAACAGCTGAGC
ACACGACTTCTGCTCCTTTGCTCAGAGCAATGACTTCTGGCTTTTATTCTTTGTCCAGGTATGTACCTC
TGGTCACAGCGACCCAGGATGCTGACAGCAGCCGAAGCTGGCTCACTTGTCTGAACGCGGTGACCCATGC
TTTGGTTTGGGTGATTGCCAAGAGCGGCATCTCCTCCAGCAGCAATCCATGCGCCTGGCTAACCTCCTG
ATGCTCCTGTCCCACGTCAAGCATGCGAGGTACGCGCCCTAAGGAGCTGCTCTGCTTGGGCTGGGATGG
GATTATGTGCTCCACGGAGGGTGAAGTGAATTTGGGAAAAGTGCTGCAAGTTAAGGAAAATGAATGCCTG
AAAGGGAATGGGGAATTTGTAGTTTACACACCTGTAAGCAAGATGGGCACAGAGTGGGCAATGGAAGGA
ATGTCATGTGGTATCTTACAGGCTCTGCTATGGCAGCCAGTGGTGGCTCATGGGTTTTCAATTGCTGGGG
TTTATAGCCTGTTTATGGAGTCTTAAAGGGGAGTTCTCCCTAACACGAAGTGCACCCCTGTTTAC
ACCACCCAGGGCTGAGGCCCTGAGGCCACTTTTGTGGAGAGGCTAAGACCCGCTCCCTTAGATGGCCCC
TCGAGCTGGTGATGCCAAGAGTGACAAATGCTTCCCTAAGAGTTGTTCTTTCGGTGGCATCAGGAAT
TAAGGATAAGACTTAAGAGAAGTGGTGGACCCAGCAGATTTAGGAAGGCAGGGCTGTAGGTAGGGCATGT
TTCTGATCAGGAAACGTAATTTGTGTGTGCTGATGAAGAGGGTGTGAGTGGTGGCTACTGTTGGTACAT
GATGCTCAGTGCTTGGTGTACCCACGATGAGGGTAGCCTTGCCCTGGAGCTGGAGGAGGGGAGGGGAGG
GTGGAAGGTAATTAAGTGGTCACTGAGGAGGCAAGTCTAGAGGCTGTGAGAGAAGGACAATATACACCTCG
AGAATCTTAAGTGAGATGAAGACCTCTGCCCTTCCCTTAAATGATTGCTCAGCACATAGCCATTTGCAG
AACAGATCCTGTGTTTGTAGATTCTTTCATTGTGAATTTATCTGCTTGTCTAAAATTTATTGTAAACCCA
AAATCAATATTTGTGGTGTTTTGTAGGTCATGAACAGAGTGGCAGAAATTTGAGTTGCCCTTTATGTAC
AGTCCCAGCTGAGATGGAACAAGCAGCTGCTCTCACTGTCAACAAGTGTCTTACTTGGTCTACTTA
GTGCCATGGTTTTACATTTTTGTGCTTTTGGTGACTTCACTGTTTAAAAATGCCCCCTGGTGTGGTGTCTG
AAGACCTGTCTAGTGTCTCGGTGTGAAAAGCTGTGATGTGCTTATGGAGAAGATGTGTTAAGCT
TTGCTCGGGTGTGAGTTATAGTGTGCTGGCCATGAGTTCAATGTTAATGAGTCAATGGTATTTATCACA
TAAGGCATCTTTAGAAAGAACACACATAAAACAAGGTTTTGTATTGATCAGCTGATGAAGATGTGGCCA
GAGGCTTGCAGGAACCTAACCTGTATTTCCCTATGAGTGAGGATTCAGTGTTCAGTGACTTTACGG
AACATAATTACGCCAAACATGAGGATTGATTGTCTATGTGTCAGGCCATTGTAGGTGTGTGGTGGGAC

FIGURE 1, sheet 31 of 66

FIGURE 1, sheet 32 of 66

TTTGCCATTTTCTCAGACGAATGCTTTGTATCATTACACTAATTTGTTGACTTCATTTGCAGGCTTTACA
 TTTGGGCCCTGTAGAAATGAATGTTTGTCTGTCTGTGAAAGCAGATTTTGAGACCTGCTTTCCCTTCCCTC
 CAGGGAGTGTTCCTTACTGTGTCCCTTAAATGTCTATGGCACTGTCGTAGAGAGTTTAAACATGATATA
 AATAAAGTGTTCATTATTTTGGCTTTAAAAATGTATTTGTTGGGGGTTGAGTGTAAGAACTTACAGTAA
 TAGGCTAAGTAGTGTCTACATTCTATTCTGAATTCCTATTGTGGGGTTAGAGAGTCCCTTGAGAATTTG
 ATGAAAACCGAGGCTAGTCTTCTCGGAAAGGGCACCTGAACACAAATGCTTGAGTACAATTTCAGAAGA
 GTTAAAGAGCTGTGCTTAAATGTATCTTCTTAAAGAACAAATTTTCACTCTTAGTCAGCTAATCTCACAC
 TTGTGATTTGATTTATGACCACAGGTCCTGTGTATACAAGTAAATGCAGCTCACAAAAGTCCCTGGTATCC
 AGTGCATCGATTATTTGGATAGATTTTCTGTAATCATTCTGAGTTTGATTAGAATTATATCCTTTTACAGA
 TGGGGAGAAAAGCAATTCATTCTTGAAGTTATCTTAGTGCCAAGAGTCATGTGAAAATGTCCCTTGCA
 TGTGGGCAATGAAAGATTTGCAGACGATATAAAACCCAGACTACCTCATAAAAGAGTTTGGGAATACAC
 TGAGCTTTGAGTGAAGAAGCTGCAGTGGCCTCCCTGGAGATGGGGAGCAAAACAGCTTAAAGGCCCTTA
 TCCTGAGGAAGAGACAAAATTTGACATGCACAATATTAAGCTTTGAAATGCAGACCACACTTCCTTTTAC
 TGCAACTTTGACTTTGTCCTCCCATCTCTACTTAAGGGCAGAAAAGGCCTCTCAAAACACTACCTCATTG
 AATGAAGATGGAGACTCTTTTGCCTGAAGCAACGATGGAGCAGTGACCTCTAATCAACTCGGTGGCCTA
 AAGAAAATCTTTGGGTAAACATTTTCACCTTCAGTTTCCCTCTGGGATCATTGTAATCCATGAAAAAATAA
 TTTTAAAGAAAGATTAATAACTTTGAAGTTAGTTATGTGGTTAAAAACCACCTTCCTTTCTATTATCA
 ATCCAACAATTTGATAACTGTAAACGCTAAAGTGAAGACGGATTTCTCTCAGATGGTCTCCTTAACCTGCC
 CAGGGCTTGCAGATGTCTACCCATGAGGGGCACCAATGTAGAAAGCTGAGGCTTCATCTACTGATGAGC
 TTCACTTGGTTTCCCTGAGGTTTGTGCTTTGGCAGAGAAGGGGAGGAGGGGACTGGGATTGTGTGGTCA
 GTGTGCTTGCCTCAACAGATGCAGGTTAGGAAGTGTGTCAGTATCTTCCAATAAGAAAGGGGAAATGCCGA
 TGCTATCCTCTTTGTTTAGGTAGAAAGTAAATGCTACTGGACTTAAATGGGCAACAAGGGGCTTTGCC
 TGTTCATTTGCCATGGAGAGGGCTGGGAATCCAGGTGCGGTGGCTCACACCTGTAATCCCAACACTTTGG
 GAGGCCGAGGTGGGCAGATCAGTTGAGGTGAGGAGTTGAAACCCAGCTGGCCAACATGGCGAAACCCCG
 TCTCTATTAAAAATATAAATATAGCCAGGCTGCTGGTGTGTGCTTGTAAATCCAGCTACTCAGGAGGC
 TGAGGCATGAGAATGGCTTGAACCTGGAAGGCAAGGTTGCAGTGAGCCGAGATTGGGCCACCGCACTCC
 AGCCTGGGTGACTGACAGAGTGAGACTCTGTCAAAAAAAGAGTAGAGTAACTGGGTATTAAGATCCTTC
 CTTTTCGCTCCACCTCTCATGCCATGCTGCCTTTGCCATTCCTTACAATAGCTGAGGGTCACACGCTGAA
 TAATTTAATTTACACATACACGAGGCTCCAGAGCTAAGTTAATCTGTAAATAAGACTTAGAATAAAGG
 CCTCTCCAAATATTTTAAAAATAAATTTTGTTTTTTGGAAAGATTAGCATACCCTGAAGTGTCTTT
 GTTACAGAATTCAGTACAACAGAAGTCTGGCTAATTTTGTTTTTTAAATGAGAAACATCTGAGTTGTACAT
 ATCACAACAGCTTCAAGTTTCTGTACCAACCCCGCCCGCCCGCCCGTGGCCAAACAGTTAAAC
 CCAAAGCAAAGCATCACTTTGGATGTGAAAAAGTCTTAGAAAAATTAACCTTACAAAAACATCCCTATCAAG
 TCGGTAGTTTGGCATTACTTTACATTAGTCAAAAGCTCCAGCTAAAATCTAATTTTTTAAAAAAAAT
 CGAAGTTTACATTTATTCATACAGATTGGGCATTGTTAAAAAATATGCACAAATAACCAATCCATGCAAT
 ACAATTTCTTTAAAAATTTAAAGCAATATAAAAGAGCAGAGCTAGGTACTGAACAGAACATTTTGGTGT
 TAACCGGCAGCTCAAAATTTGAGCTGAGTTGGAGTAAACTGATTCTAAGCGTATTAAATATGATTGATT
 GTTTCCATCAGCTAAGGGTGCCTATGAGTTTCTGAACCATTTCTAGGGTGGAAATGTCTCGCTTGTCTCT
 ATAATATATGTATGACACCACTGCTCATTGACCATACCTACATTTAATAATGCTGTTTACAAACAA
 ACCAGAAATTCAAAAGTGCTTGGCTCTTCAGGAAACTGACATTTCCAGAGATCCCTAAACTAATCAACTA
 GTTCTGCCAAATACCCGGGGCAGCTGCACACAGGTTCCCTGCTCCTGGGAGGAACACAATCTGAAG
 CTGCCCCGGCTCCAGGGAGCCCGTGTGGGTAAAGCCAGAAAGTCTGCACAGGTCCCGGGACCTTGC
 CAACACTAAGTCACTCAGATTGGTCTGGGGCCACGTGTGGGCACCTTGGCAATCAGGCAGGTGGTGT
 GCAGTGTGGCCAGCTATGCCCTCTATGTGGGGGTGGCCCATTTGGTGTACCTCAGCATGGGGTAAAGGA
 CCGGGCAAGTTGTTTGGCCTTGTGCTGAGCTGTAGTCTTCTCGGAGGAGGGCAGCAGGCAGGCCAGGAGC
 AGCAGCAGCAGGAGGAGCAGCTGCAGGGGTAGGGCTGCCCGGACCACCTTGTAGAGGAAGGAGCCTGTG
 GCCGTGTGCTGCCGGGGACCTGCCAACAGAGGAGGTTGAGAGCTGATTGGGAGGCTCCACAGGCACAAC
 CCACCTATTACCTAAGCCCTGCTTATGTAAGTAAGAAATCCAAGACCTGAGATTTAAATAGGGCCAAC
 AGTTGGGGTTCAGTTTCAGAGGAGAAAACAGCCCTTTCCAGACAAAAGAAAACAGATTTTGTGAAGGA
 CCTTGATAGTGGCATTGGCAAGACTGAGTCAGTGGGAGTGTGGAGCAGGGGAACGCACTGCTGTACGGT
 AAGGCCCGTTACCTGCTCTGTCTCCTCCTCGCTTCTGTAGTTCTCACTGCTCTGAAGTGTGGGT
 AAGAACTCCAGTTAGTAAAGTGAAGACAGTTTGTCTTATCAATGATAAAAAAAAAAAAAATCCTCCCT
 TAAATTTATATACCACTTTATGTTGTGTACAGCAAACTTTGGAGACTAGAGTAATACATTTGAGATTA
 AACGTCACCTGAAGTAGGAAATAATTAGGTAACTACTCAGTTTCAGGGTCAAGTGTGTGAAGTTTTT
 AATGGCAAAATCAGGGAACCCCTTTAGCGACACTATAAGAGCTCTCATTACAACCTACTGTGATCCCAA
 AGAAGAGTGACTAGAGGCAGACTGAAGCCTCTCTATGGGTGAGCAGAGACCTGTGCTGTCTGAAATGG
 CTAATGGGCTCTTGGAAATCCCAAGCTTCCCTCATCTTAGTGACTTTAAAAAATAACCAAGTGGGTTCTCA
 CAGAAGGAAGGGGCTTCTTACCTTTGCTCGGGGAGCTGGCACGGATGTTGCAGGAGGCTGTCCTCCCGAG
 TCTACCTCGTCCAGAGCTGGGAGGGGTGAGGCTGGGTCTGAAATTCAGACCCCAAGGTTGAGCACAGA
 AATGTGTTTCATGCAATATCTTCATGATATAGCTCACCTCCCTACCTTAAATCAATCTTTTTTGTGTT
 TGTTTTGTTTTAGACAGTCTCACTGTGTACCCAGGCTGGAGTGACAGTGGCACAATCACAGGTCACTGCA
 GCCTCAACCTCCCAAACTCAATCCTTCTACCTCAGCCTCCTGAGTAGCTGGAACATAGGCGATGCACCAC
 CACACCTGGTTTTGTATTTTTTTTTTTTTTTTTTTTTCAGAGACGGGATTTCCACATGTTGCCAGGCT
 GGTCTCAAACTCCTGGACTTAAGTATCCACTGCCTTGGCCTCCCAAGTGTGGGATTATAGGCATTA
 GCCACTGTGCCAGCCTTAAATCTTCTGAAGGGGCTCTTCTATTGCTCTCACTCCCAACAACAACAGA
 CTTTTTCGGACAAAAGGAATGTAACAAGGAAAGCCAAACCATATTAATAACCAACCATAGCACAGA
 GCTGGGGAGACTGAGTTTAGCAGCAGCAGTTTGAAGTAGATGTTGAGCTCATCACAGTCCGGTGTGAGAT
 CATGTGCCATCAAGAGAGTCTAGTTTGGCTGCTTAGGAGAAAACAGACCTGCCCTAAGTCTGGTGAGG
 CCACAGTCTGGGTATTCCTTTGTTTTGAGTTGGATCCCATTTTAAAGTAGGCCAGCTATGGTGGCTCAT
 GCCTGTAATGCCAGAATTTGCATTGCTTGGGTGAGGTCAGGAGTTCAAGACCAGCCTGGGCAGCATGGCAAGA
 ACCCTTCTCTACAAAAATACAAAAATTAGCCACTTCTTTAAAAAAGTTTAAAAATGTATCCCGCC

FIGURE 1, sheet 33 of 66

ACTCCCTTTTAAAAATGACAAAACAGATTCAAAGAGCTCATGCAGCTCTTTAAGTCCACACAGCTAGAAA
 AAGGGCACGACATGAGGCCCACTCGGACCACCTGGCCCTTGCTTCTGGCCTCTGTCTTAGAGCATTGCT
 ACAACACTGCTGTCTGTCTGCATGTAATACGGCAATCTTTACAGTTAAAGCTACAAGTAGACTCACCT
 GGGTTCCTGCAAGGCCATTAAATCTTGGGACACTTGCTCCCGTAAGTGTGAGTTTCTTCTCAATAAC
 ATGCACCTTTTCTTACAGTTCAATACAGTCTTCTCCATGTCCCTTAATGAGAAGGCTGTTGAAATCTCC
 TGTAACATGTCCACTTGAGGTTGACGTTCTACCAGCTCCTTTTCCAGTTGCTGAAAACAGATAAAGTGTG
 TGAAACAGTAGCTGTCCAAGGGAAGCGAGTGTGGACACAGGAGGTTTTTCTCAGTACCAGAAAAATTC
 CAGAATGAATGATGGGTAGTACTCAACTCGAGAATCCTCTATTTCTCATATCTGCCTGTGTCTCCAGCC
 CAGCACTATTTAGATAGCAAGTGTATTATGCCCTGCCCTATTTTAAATTTCTTTTCACTCTGAAGACAA
 TTGTGATGCTGGAGAAATTAGAAGAAAGAAGTGAGGCAAGTGGTGTGGGAAGACCAGGTCCCTCATCCAC
 CACGGAAGGAAGTAAAGGGAACCTCTAAAGTCAATCAACCGAGAAACAGCAGCGTAACCATAGAGGTTC
 TACCAGGCAACGGGCTTAAATGTTAAGGTTGGTTATCTTGCTTGCAATATGGCCACTAGACACATGTG
 GTATTCTATTTTATTTTATTTTGGGTGGAGTCTCACTGTCTGCCCGAGGTTGGAGTACAGTGGCAGCA
 TCTGGGCTCACTGCAACCTCCGCTCTGGGTTCAAGCGATTCTCGTGCCTCAGCTCCAGGTAGCTGG
 GATTACAGGCGCTGCCACCATGTCGCCAGCTAATTTTCTTGTATTTTATTTTGTATTTTGTATTTTAGTA
 GAGACAGGGTTTACCATTGTTGGCCAGACTGGTCTTGAACCTGACCTCAGGCGATCCGCCCCGTCTCAG
 GCTCCCAAGTGCTGGGAGCCACCGTGCCCGCTACATGTGGCTATTTAAATTAACATAAAATAAAAAT
 TCAGTTTCAGTCATAATAGCCACATTTAGGTGCTTAAAGCCACATGAGGTTATTAGACAGTGCAGACAC
 AGGTCTATCTCTATCACTTCAGAAAGTCTACTGGACGCCACTGCTTTGCTTTGCAACATTTTAGGAAGC
 TGTATTTTAAACAATGGCTAGCACTCTGATTAAATTTAAATATTTAAACACATACAGATTTATGGA
 TGAAATGTCACTTTGAGCACCAGTGAGAATACAGAAATCTCATCTGGTGTGTTAGTGACAAATACACC
 AGGACACGACTCTCCTCCAAGAAGAAGATTTTCCATAGTGGATACAGAAAACCCATTAGCTCATCAC
 AGGTGTGAAGCAATGAGCACCATATTTCTCCCAATGAGCAGGATTACAGAGAGAAAAATACTTCCACT
 CAAATGGCCTTAAGTTCTCAGGATATCGAGAGCACCTATGTCCTCAGTTCTGTGGACTGTGGCTCTCCA
 TTCTGCAAGTCATTTGGCTTACAGAACTACAAGGGCAGCTCGGTAAACACCACTGGAGGAACACTAGG
 GCTGAACCTCGTGCAATTTACAGGCAACACCACTGGCAGGTTCTGAAATACTAGGCGAGGCTACCTGAG
 TGTGCTGCCTCTCTGGGCTGACAGAGGCTGGTGGCAGTACAGAGCCCTTGGGAGGAACTTACCATTAG
 TTCCCTCCGACACTCTAGGAGAGCCCCGGGGTCTGCCTTTGGATCGGTGACATGAGCCTTCTGCCTCCGG
 TTCTTGGCACTCGCTAACCCACAGCAGAGATTTTGACTCAACTGGTGGAGTCTTAAAAAACACACAT
 CAGAGCGCGGCGTGTCTTAGAGCCCTGGAAGAGGGTGTGCCAGGAACATGGCTTACTGCTTCCATCCA
 TCACAGTCAATTTGCTTTCTGGCCTTACCCTGAATACGAGGACCAGCTTAAACTAAATGCCAGGGCC
 CCAAAATGAGGAAGAGGAAAGAAAGAACACTCAGCACAGTGCCAGGAGGCCGGAATAAAGTGCCAC
 TATGAAGGTAGGGCTTTGGGATGCCAGCTGATTTTATATATGAAGGCCACACGCTTCTCCAGCCAATC
 TGCTGGGTTCTCTGCTGGGTTCCAGTGGCAGAGGGAACAACCCACAGGACAGGCTGGGGTGGGCTCAC
 GTTCCCTGAGACACAGCCAGAGCTAGGCGAGTGGTGCAGAGCTCACACCCGCTGTGCAATTTACTGTGTGAG
 GTACTGGGCTAGGATTATACATACTGCCTCATTTACTCTTAAAGAACCTTTTAAAGTTCTTTCTAAA
 AAGAAAATGGGAATGATTTCCATTTTTCAGATGAGAACACTGAGGTCTAGGAGGTTCAATGCTTTGCTCAA
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 GATGATGATAAAAATATCTGCTGCTCTTACCAGTGGGCTGGGTACCGGCTCTGGGAGGCGGGCTGCTG
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 CTGCTTCCAGAGCAGGCTCAGCTGGCGGAGTCTACTTTGGAGCTCTGTGGATTCTGGGGCTCTCGGTTTG
 CAGAAATTCCTTGTCTGCTCAGCTTGACAGAGACCACTAATGCCTTGAAGTGTCAAAGGCTTTTCAATC
 TCCTACCAGAGAGAGAAAGATGAGGTTAGGAGCTCTGAAAGTAGGGAGGAGGGGCTCATTTTGAACCTC
 AGTAGGGAACAAATTTCCACACACTTTTCCAAGCTGCGGCCACAGAAATGAGAGTGACCTGCGCTGGGA
 CTGGCTGGAAGCATCAGGTGAGGAGGCTGCCTTAAAGTCTGTGAACTTGGCCAACAGGGCCCCAAGTA
 GAGGCTGCTGGAGGGAGGAGACCTGCTGACCTCTACAGGCCCGCTCTGCACTGGCTTAAATGCTTCT
 GGACCGACTAAAGGCTTTCCAGATAAAGTATATGTGGTTATTCTGCATTTGCTCCTAGAAATGCCAGAAA
 TGTTATTCTTAGGAGGAATGGTAACCCCTAATATATTAACACAGATAGTAAATAAAGTACAAATATG
 AAAGGTACCTGGATCTTCCAAAACCCCTGCGCTGGGTCTCAGGCTACTGCTCATGGCACCTTAAAGCGC
 AGGGCTCAAACCTGTCCCTTTGAGCTCCCTGGGCTAGTTCCAGTGGGGTCAAGGCTTATGTAAGTGACAC
 ATCCTAATTTGCATAAAAGGGTAATGAGGTGAGGCCACGGGATTCATCAGTAGGTGAGCCGCTCTTTCCC
 AAGCCCTTTCAAGGAAGATTCCACCACTAGTCTTTTCGTGTAACGTGCGACATACAGTTTGAAGAGTGG
 TTTTACACTGCCTGACAGTGTCCACTAGCACCTCCAGAAAAGTCTAGAAATGCCTCGGATGTCAGATTTT
 TCCATCTCTGGAGATCTGAGCCACCTCCCACTACTCTGGGATCAGGATCATTTGCAGATACTCTTCC
 ATGTGAAAACAAAAATCTGCATCTATGTCTTGGCAACTATGGAATGAAATGGAAGAGAGTGACCTCTA
 CATACACCATCTGCAAGCTGCGCCTATGCCACGAATACATGGGATCTGCTCGTCCAGCATAGCAATGCGT
 TCACATGCACATTTCTGAATCCCTCTTCCCCACCACCTCTAATCACTGCACTCTCTTCACTCTCAGT
 TCTATTTCTGGATATCAGAGGGAGGCTTTGCCATCTTTAATCTTCCAGCTCTGCTTCAAGTTTCTTCA
 GCCAAGTAGTGTGCGCTGATATCAGAGTTTCAAGTGTGCAAAATTTGTTTTATTTTGTGCTTATTGTG
 AAGCTCCTGTGCTTGAATCATCTCCATCTGTGCAAGGCACCTGGAATTAATAAATCGCCAATTAATAA
 AGCAATAATGCAACAGATTTCTGCTCCAGCTAATTAGGGGTGAGGTTGTTTTAAAAA
 AATGTTGGAATAGCACATGATCTGAGGCGTACACTCCACAGAGGCTGGAATGAAGTGAAGGTCTATGTG
 TACAGTTTCAAGCTCAACAGTTCAGTTCCTGCTGAATTTTTCAGTTTTCTCTTGGTCCACAAATGAC
 CAGGTTCGATGCTGCTGCTTTAGATTTAGTTGAGTAATTAATTTTATAATTAAGTGGGCTGGTCAATGAA
 GAGACACTTGAGATAACATCATCTCAAGTCTGATCTTTACACACAAATATAGAAAGTGA
 CCTGCCTTCTCCAGGAGGCTTATTTTACCAACATTTAAAGAAATAGTTTCAAATTAAGTGAACAGCCT
 AGGAATTTGTTGCTGAATGCCAATCGCTGATTTAAATAACATTGGTTGTGTAGGGTAAGTCCCCGAG

FIGURE 1, sheet 34 of 66

TTCTGGCGAATCGTATAGTTGGTTAATATCTAATGAATGTTCTCTTGAGCAAGGACTTAAATACCATACT
 CTGCCTCTCTGGACGACTGCCAGTTACAGGCAGTACCTGACTGCTGCTGTGATACCGGCCAGTCCCCC
 GTCTTCTCTGCTGTGGGTTGCCATTTCAGGACTCGCGGGCCTTCTTTGCCACCATCCGTGCCTGGAGGTAAT
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 AATACAGTGGTGGCTTTAGTGTCTAGGTAGCATTATAAGCTGGCAAGCTGATGGCAGAAATAAAGCCTC
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 TCTTAACAACACTACTAGGTGAAATAGCTTTAGCCTCAGGTGAGAAAGGCTTACAGAAGCAAGCCGAGTGC
 CTCAGGTACCATGGCAATGGATTGGCAGGGCTAGGAATCAAATCCGTGTCCTGACGACACCATCAAT
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 GCCTGGCCACATGGTGAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGCATGGTGGTGCACA
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 AAAGACAAGGCTTGAGAGCTCAGGAGCAGTCAAGGAAAGCCAGCACCTTGTCTGCTCACTATTTGCACAG
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 CCTATCTCTAAGTCTAATCGGTTTTTGCCGGGGTCTAATGAAGTATGGACAGCTCAACAGAGACTGTC
 ACCATAAGAAAACCAACTCAAATATGCCCTGGGGAATGAATACACGAGTTTACACCAAAATCTCTCTCT
 CTGCAAAATGTAAGTATGACTCACAGACATAGGCTGTACTCCAGTGAAGTTAAGACTTACATAGGGTGG
 TTTATAAGGGGTGCTGGACGACGAGGGGAACAGGTGGAACATTCTGTCACTTCCATTTGCTTGTAGTA
 TGCTCGGGACAGGAAGGGCTGTGCGGAACATGCCACGAGTGGCCATCCGAATGGATTTACCTGAAACGA
 AAGACAGCAAGCGACAGTCTATCTCTCTACTGAACGGGTGACGGGTGACATGGCATCAGGTTACAGTA
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 AATGAGATGAGTCAAGTCAACTCAGGAACACTGTGCTTCACTAGATGGGTACACAACGGAGCAGCAACAA
 CATGATTTGCTGTGGGATGAGTGGCGTTTTTGAGCCAGGGTCTCGAGTGGTAGGGACACTGAGTGGCAAG
 GCCGGGTCTGGGGACCAAGATGGCAGAAGGCCTCTCAGGAGTGAAGGGAAGAGTGAACATCAAGATGGAC
 TTGGGAACCAAAAGGCTCCTCAGGGCTCTCCCCGACCCACCATGGCAGATAGGGATGGGGCTAAGGATGA
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 GCCCAACCCCCACCCCTTTCCACCAGGGGATCCAGTAAAGCAAGGAAACAGTTCCAAACCAAGCCAC
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 ATGAAAAATCCCTCTGCACAGGCCTGAAGGGAGGAGGGGGTTGGCATCGAGACGGCTCTGGCTTGA
 TGGGGTTTTGTAAAGGACACGCAAGTTATGGGTGAGTACGGCAGTGAATAACACCATGACACAAGGAGAA
 AGGCGCATGGTGTCCACAGAAGGCAGAGGTAGACACGACATGGGAGCGAGGTTGAGGATGCAGTGTGCGC
 CACAGGATGCTGCCATGTTGACACATGCATGGGCGGGGGCTACCAGAAGACGCTTTCAAAGTTTTGTG
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 ACTGGAGTGCCTGAAGATTAAATGCCAAGTATTAAACACACAGTAGAACAATGTGCTGAGTGAAGGAGAA
 AACTACCTTTTATTTTAAATTAAGGATTTTGAACCAAGAAAGATTTTTTTTCCAGCCAACCTCCT
 GACTGTCCAAAGCAGGACACTGGGTATCAAAGGGAGAAGCTCAGTCTGCAGACACTCTGAGAAATCAAC
 TGAAGGGAGGGTAGGCACACTGGCTCATGTCTGCAATCTCAGTACTTTGGGAGGCTGAGGCGGGAGGAC
 TTCTTGAGCCCAGGAGTTCAAGACAGCTCTGGCAACATAGCAAGACCTTGTCTTACAAAAAATTTAAA
 AACTAGCTGGGTGTGGTGGCGTGTACCTATAGTCCAGCTACTCAGGAGGCTGAGGTGGAAGGATTGCTT
 GAGCCCTGGAGGTTGAGGCTGCAATGAGCCGTGGTGCACCACTGCACCTCAGCCTGGGTGACAGTGTGA
 GACCCGTGATCAAAAAAAATCACTGATGAGTCTCCAGACAGCCAGGCATCACTGAGTAACCTTAGT
 GTCTGAATGTGAATTTTCATTTTCCCCCTTTCATTTCCACCTGTGATGAGAGTGAAGCAATTTCTCAGG
 TAAGTTAAGAGATGGGCAGGATAGAGCACAGGAACACAGAAGTCAAGGCTCGGCCACAAGATGGACTCT
 TGGTCATTGAGAGCTGGCCGTGTGCTAAGGGGCTAAAAACATAGCCAAACGGGTCACTTTCCAGGGTGC
 TGGGAACCCAGCTGTACCTGACAGTGCCTGTAGTATGGGCCCTCCTCGTCTCTTTCGTGAGAGGAGGA
 GCCCCCCACGTCGCTGTGTGGTCCCACTCCAGGGGATGGAGTCCACGCTGACAGGGGTCTCGCAGCCA
 GACCGCTCGTGCCTTGGGGCACTAGATGACACAGGAGTGAAGGATGACGGTTCCTCGCTCTCTCCCC
 GTTACGCCAAGAATCAGTCTGGATTTCTCTGGGGTCTTCCATGTCTGTTTCATTCTCAGAGGCCTCCTT
 TTCATCTTCCAGCCCTAAACCACAGTATCCAGTTGTTAGAAATTAATCAACTCATAGGCTTCTGCAATTA
 GAAGAGCATGAGAAGTCTGCCTATCTAGCAGTTTCCAAAAATAACTGCCAATAGTATTTCTAAGGCAGCT
 TTAAGAAAGATCAGGTTCCAGGTCTGTTTCTGGTTATTCCAGTTTAGACAATCTGGAGTGGGGCTTAA
 ATCTGTTATTTTCCAAACCTCCAGCTATTTTTCTTAGGAAAAAAGCTGAAGTTTGATAATCTAAGT
 TAAACAACTTTTATCTAGGAGATAAGGAATGGTGGCCAAAGTTTCATTGATGGTTAATGGCAGGTTCTC
 CAAGAATCAGACTATTTTGAAGGACATTTGAATGTTCTGGTGAAGACTCAAACTTCAACCAGATGCA
 CCAGGTTCTTTCTTCTATCTCCAACCTAATTGCTCAGTGTCTGTATTCTGCTTGTGTATAACGCTCT
 CTTTCAGTCTAAGAAAAATGACTCTAAGTGGCTGACTTAAAAATGAGAAATGTGGGGTAATTTTGAAG

FIGURE 1, sheet 35 of 66

GCTGTGCTGATGAAATAACTACATTTGAATGTGGCCAGTTGGAGACACAAAAAGAAAGAGTGGCCAG
TCGTATCGGTCAATGGTTGTCATTCAGCTTCAGGCACACAAAGGCAGTACGCTTTGAACAGTGGCCCTTA
ACTCCACCTGAACCTCCCAAAGGGCCCTTCGTCTGGGGAACATCAAAGTTGCTTTTGAACTCTTTGTG
TTTTCTCTTCCAAGGTGAGAACAAAGCATCAGAAAGGCACAAATACTAAAGCTTCCAGCCTCTAAGAAA
GAGGGAAGGGCAATATACATTCTTAAGTTACTAATGTAATAAAAGCCAGAGAGTTCTTCAAGAATTCTAG
GGGTAGTGACGCATGCCAGACAAGCCAGCCCTGAGGAATACTTAAAAGCGACTCGTGGAGCATGCGCCT
CAGAAGTGCCATGCTTTCCTGAGGGAATGGGAACCTGTAAAGTTACTGTGGCTCTATATTAATAAAAGTG
GAAATTAATGTTTGTATAGCCCTTCTTTTCAACCAAAAAATAAACCATATTAACCATTAAGA
CAGGTCCCTTAATCTTTAAAAATTTGGTCTCACGTAAACTCTGAGCAGCCAGGTGCCATTTCTAGGCA
GCAGTGCCCGTACCGGAGTGCAGGAGGTGAGCCGCGGTGGAACCGGAGACCCTTCCAAACACCTCCTG
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GGGCCATAGAAAAGCATCCAAATGTCATTATTGTTGTTTCTTCCCTACTACTCTAGCTTTAGTTTTT
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ATCTGGCCAAGGAGAGAAATTACAGTGAGATTAGCCTGTCTACAGATATCAGAAACAATGGGAGAGCGGA
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AATCTGGTAGTACACAGGTGGGATGTAGCCTGGCTGCTTTAAGAAATCTGAAATTTGCTCTCAGAGTATC
GTGTGAAATTTGCACTTGGCCAGCTCTCCACGCAAGGTGTGTTCTTTGAGAAGAGCTAGGGAAGCAG
CAGCCCTCAGATTGAGTTGGCGCATCTGTCTATCGGCGTCACTCTCTGAGAAGTGCTCCAGCTTGGTCAG
CTGCAGGTCCATCTCTGTGAGCCACACCAGAATGCTCTCCCTGGTGCCCTCAAATTTCTCCCTCTGGTTG
GTGAAATGCTGAAAAGTGGGGAGGAATCAGATTTCTACTGACCAGGAAACAGAGTTTACAGACAGAG
CAAGGCCACCTTCCGGCCACAAGAAAAGGGTACCCAGAATACTCAGGGAGAAATCTGCCTCTAGGGTACCC
AGAAAGCCCGAGAAGCACTATGTTGTTTCAAGAGCTGGGGTCTGGTTCTGGCTTTGTGAGACCAACAAAG
CCCCCTCACTTCTCTGAGCCCCAGCTTCTACGCTGGCAAGTGGGGAGAGAGTGGGAATGTTGATTATGG
TCTCTGAGGTCCCTTAAGCAATTTGAAATTTCTAAAATTTCTTAGTCCAAATCAGTGATTTTCTCTGCTCT
TGAAGAGCCCCCTGAGGGGCCAGGCCAGGCCCTTCTGCTGTTTACACATTGGCCTTCTGCAGCTTTTGC
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CCTTCTGCTCTTACTGATAGAATTTCTGAATGTGCTTCCAGAGAAAGAAAGACTCAGAGCAGTTGTATCA
TCTCCAATTAAGGATGCTCTCAGGTTTACTGCTTTCAGAGATAGGCAGCTGATGTTTCAAGATCAGTATAGCT
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ACGCCGTAATCTTAGTTACTCAGGAGGCTGAGGCAGGAGGATCCCTTGAAGCTAGGAGTTTGAAGCTGC
AGTGAGCTATGATCTCAGCACTGCACTCCAGCCTGGGCAACAGAGTGAGACCTGTCAAGAAAGAGAAA
GAGAGAAGAGAGAGAAAGAAAGACGGAGAGACAGGAAAGGAGAGAGAGACAGGAAGGAGAGAGAGACAG
AAAGAAATGCAAGGGAGTTGTCTTAGTTACTAGAAAAGCCAATGTCTTCTGAGAAGGAGGGAGGGGGAG
AGAGAGAGAAAAGAAAGGAAGAAAGAAAGAAAGCCAGATTACATCTTTCTAGAATGGGTTCACACAT
GCTCTGCCCCGAGAACAGACGCAAGAAATTAATTTGTGCTGTAGTCCCTGCTGTGACAGTCTTTCA
GTTTATAACTGGATTACACAGGTTTACACAGCACATCTTCTGAATGACAGAAATCTAAGGTGAATATTT
ACCTTCAAAAACCAACCTTTGTGTGCTCTGAAATTCAGAGAATAATCAGTCCCCAACCCCCAGTGC
AGACAGGGGCTCTTGCAATTCAGCTGCTTGTCCATCCTCTCAGTGCGAGAGCTGGGGGGGTCACATAA
AAACAGACAGATGGGCAAAAGCGGGCTCCTTCCAGGGGCCACGTGTTGCTTTTCCAGACCAGCGAAG
CGGCGCCCTGGACTCTGAGCTAACATGCACACCACACGGGTTACAGAAGTTGTAAGAGAGCTGTGCGT
TGGTAACGCAAAATCTCATCAACAGGCCCTGCCTAAGAAGCCCCACATGCAATCCCCCTTTAAAAAACG
AACGTTGGCAGCTTTGGGCTCTTTGTGTTGGAGACTGTTAAACAGCTCAGGCCTGAAGTGAACCTT
CTACCTGCTGCTTTTGTGCCAACAGCTGCCATTGCGTATCGTGCGTTATGTCTCCTGGAAAATCTACACC
CGAGCCAGGTGCAGAGGAGCTCACCTGAGTCTCCGCAGGACGGCTGTGACCCGCTCTGAAGGTTGTCC
CAGCGCTGGTGGCCCTCGTGGACCATCTGCTTACGCTGCTGGCCGTGTCTGTGCGGTTCTCCCGGGCCA
GCCGCCGTACTGCTTGTGATGAGCTCCAGCTGAGTGAGCCGCTCATGAATCTGCCGCTGAAAGGCCCTG
CATCATGAGGGGGTGCAGGCCAAAGCATGCAGAGTGCCAGGACGCCCTCCTTCCCTTCTACATCCCA
AGCGACCTGCTGCCAGGGGTTTCATCCCCAACTGCAATGCGAGCAGAGGGCCTAATTCACAGCTCCTGAT
GCCAGCTACAGAACAGGCTTTCAAGTTTATTACATAGCAGCTGGAGTACATCAGCAATGTCTTGCAAGC
TGTCTCAGCAGCTGGGGCAGGCTGTGGTTTAGGCAGCCCTTGCCAGAGGTGAGGGGAAGCTGGCTACTT
AGAGGAAGTCATTTAGCAGCCCCAGGCTCGCTGCAGGCTTGGTTATGATCAGGAGACCGGGATGGAGA
AGGTGTTTACCTCAACCTCTTCACTTCTTTGGCACTCGTGTACAACACCTCTGAGGAATTTGGGGA
GGCTGCCGCTCTCTCAGCTGACTTGAAGCAGTCTCAAAGCGAGAATAGTCTCTAAAAACTTCTGCCAC
AGGCGCCAGCTCTCTGATTCTGATGGGAGCAAGCAACTTAACACAAGCCATCCCCCTCAAGCCTGTG
CTTTTGCATCTCTTTTATCCCCCTGACACCCGACGGTTTGTGGGGAGACCTGTTACCCCTTCTGGGA
AATAAGAGGGACGCCACTTCTGTCTGTGCTCCTCTGCTGGGAGCGCCAAGCAGCTCAGAGCTCCTGC
TTCACAGAGGTTAAAAAACAGGAGACAGGGCTGCCTCCACTACTGCCAGCTAGGTCAACGGAAGCACA
GCGGCCAGTCCACAGCCACACCCACAGGACAGCTGGGAGAGACATTACTCCGCTTACATTTTCTT
GAATAAATCCTTTGATAAGCGTTGGCCCTTCTCTGCCAATACCTGGCGCATTTCTAAGTGAATGAACAG
AATAGTTACTGTGAATGAGGTGAGAAGGGTGTATTGAGTTGCGGTGACCAGCTGAAGGCATTTGGGGGA
GCTTAGTTCTTACTTCTATGCCCGCTCCATGGACATGGCACAAATGTTCTCCAGCGCTGTGCCAGGCTC
CTGGTGGTCTGCTGGATCGAGTCACACTCGGTCTCATTTGACAGGCATCGGAGTCTGTGAGTAGGACGT
CACAGATGTTAAACAGGACTCCACCCCTGCGCTGTGTTGTTCAATATCTCGTGTAGATCCTGTGATTA
CAACAGAGTAAGAAACCTCTTGAGATGTTGGTGGCAGCAGGAGGTGAGCATCAAAGGACCTCCGTTCTT

FIGURE 1, sheet 36 of 66

CCCTCCCTTCTCCAGCTCAGGGGATACTTCCCTGGGTGGATTTCACCATGAACCTTGGCAGTACACATG
 GAATCCCTCTCATCTTTGTGCTACCCCTTGTGCTGTCAGCACCTGACACAAAGTTTAAACACTGGAAACAT
 CTAGGACTTATGCGCTGAACCATGTGAGGGGTGCCACGGTGATGGGTGCTCTTACGCACCTGACAGGTGG
 CGCCATTACTGTTGAGAGCCCATCGCCCCACAGACTTCGGGTATGCATGGGATCTACTCCATACCACCCA
 ACCCAAAGGGCTCCAGTTTAGACTTGGTTTCAGGGAGGTCTTTAGAACTGAGTCTCTTCAGCAGGAAC
 TCTCAATCTTTTATAGCTACCGAAGCTTCAAACACACACCAAATTTGTGCATGCAGCAGTGTGGATGCC
 CACAGCTTCCCGGTGAGCCATTCAAGGGCTTCATGAGCCCAAGGGAGAAATTTCTGGCAGACAGACCTTG
 CCTCCCCAAGTGATAAAGTCCAGCCAAAGCTGTGGTGGCTTGGAGAGAGGTGGGGTCTCTGGAGTCTTGT
 CCTTTGATGATGATGATGCAGTTCCTCAATTTGGGAAATAACATTTATGAAGAGAAATGCATGG
 TCATAGGAAAAAAGTGGAAACCTTTCACGAATAAACATGCGATTTTGTAGTCATCATCAGATAATATTT
 CTGCTGTACCCCATGGGTGGGCTGCGGGGAGTGAGAGAGATAAGGAACCTGTTTTGCCATTTCTGGAAGAG
 TTAGGCATCCCTGATGTCCAAATTTGTGTGACAAGTGACATGAGACCACAGCATTAATTTTAATATCCAAA
 TTACATTTGTGAGAAAGCAACACTAAGTCAAATTTCTATCTTAATTTTGTGATAATATACCAATTTCTAAA
 ATCTACACTACTTTTAAACACTATTAACCTAGACTAAATCCAGTTCAGGACTCAACAAATTTTCAGTTAAT
 AAGAGGACTGTACTATAAATGGTAGCTGTACCATCTACAGAAAGGCAATATAAGCTTCATTCAGGTCA
 CTTTCATATTTAAATAACTTGAGATTACTACTATATTACTAGATGGGACCACTATTTTCATACTCTCTTT
 TTTTTTTTTTTGAGACAAGGGTTTCACTCTGTTATAGTGGTGCATCTTGGCTCAGGAAACCTTACC
 TCCGGGCTCAAGTGATCTCCCAATCAGCCTCCCAAGCAGCTGGCCACCATACTCAGCTAAATTTTTTGT
 ATTTTTGGTAGAGATGGGGTTTTACCATGTTGTCCAGGCTGGCCTCAAACCTCTGAGCTCAAGTGATCCA
 CCTCCTTGGCCTCCCAAAGTGCTGGGATTACAGGGGTGAGCCACCACGCCAGCCCTATTTCTCTTACT
 TTTCTTATATAAATACACAATTCGATCATTGAGTGTTAGGTTGATATAAGAAATAAAATGCTAACC
 CGCCAACTGAATTTTAAATCAGGCAGTTCCTAACACTGATCCCGAGTACAAATGAACACCACCAGGTTAT
 ATTCAGAAAGAGATGTGTTTTCCACTTGGCCACCCCTGTGTGACTGTGAAGAAATGTGCAGGGTGATTTCTT
 TAAAGCTCTGCAGTGTGGGTAGAAATGCCTGATATGCTCGAATGGTGGGAGTCTCCTGGAGTCAATTTGA
 GGACTAACTTTAAAGTTATTACTCTAAATAAAATTCAGTTTAAAGAACTCTTACGGTTTACAGAACTGA
 GTCATGGGCCCTTCTAAAATTAGAAGATACATATCCCATGTAAATACTAAAATAATAAATAGGAACCCCT
 AATACTGGTATTAAAATAAATAATACTAATCATTAATAACTGAAAAATGCCCATGACCTCATCTGGCTCC
 AGGTGGGTAAAGTCTAGTTGAAAAGCCGAGAGAGTTCTAGTTTATGGACAATATGAATGCTCTGTATTT
 TAATAAATCTGCAATATCTCTACATTTATTTATTCAGCTTACATTGAATCAATAGGCTAAAGAAACTGA
 TTAATATTTAGGGTAAATGGCCGTAAAGAAATGAAGTCTACAATAATTTATAAAGACCATCAACATCTTG
 GTTAAAAAAGCCCAACATTTTCAAACCTTTTCAAACCAATTTTCAAACCAATTTTAAAAAACC
 ATGTAAAAACACACAAATGGCCTACTAGTTACCTTGTACAAAAAATAAATAAAGTATAGACTAC
 ATTTTAAATGACAGACCATTTAAGTGCTAGACAAGAACATTTTGAAGCTGAAATAATCCTACCCTAGT
 AACCACGGAGACCTAAGTCTGCACAAGAATCAGGTTTTAGAACTGTCCAAACCTAGAGAAAAAGTGGAT
 TTAAGAAACAAATATAAATGAGAAAGACTTTTGCCAACAGTTCCTAACAGGCTCCTGTTCATTTTCGT
 TTTCTGCCCTTGGGAGGTTGACACATAACCTGAGGTTGGGGAGGAAGTGGGGGCCAGGGGGTACAGAG
 CAAGAGGAGAAGGGGAGACATGAACTGGAGAAGAGAATGCAGCCAGAAGAAATGAGAATAAAGAAAGAAC
 AAAACAGAAGGTAAAGGTGGCTGAGGAGAAGAAAAACAGGCTGAAAAGACAGAAATCATATAGCGTGA
 AGCCCCAGTGCCAGCTCCTGAATGTGTCTGTGGGAGGGGCTTGGGTAGCAAGTGGGACAGGATGGTATT
 GGGATGGTTTCAAGGGGTTTGGGTGAAGCTCACTGGCCACGGCAGGGGCTATTAAATAGCCAGTGGA
 GGTAACTTAACAACCACTCCAAGCCACCATCTGGCACCCCAAGAGAAACAGCAACCAACCAATGAACA
 AACTAGGACAGGGATCTTAAAGATTCAATGAAAGTGGTTCGTGATTTAAGTGTACAAAAATGGCCACTAC
 TTCTGTGCAATTTTAAAGATGATATATCCGTAGGAATAACCCCATTACCTTATACTTAAAGGTGTTCT
 ATATAAGAAAGGTGAAACAGAAAGGACTCCTATAGGCTGTGACCCCTCCCAACAGGATATATTACAGTG
 AGGATCCGGGGACATCATGGCTCTTAGCTACTTTTGGGGCTGAGGCTTTTGCAGAAGGCAATACAGG
 TGATGCCATGTTTTTAGGCTCTATTTTTTGAAGCAATTAATTTTATTATTTAGTTTGAAGTAAACAT
 AGGTAAGGTGTTGTTTTTTTAAACCAGACCAAAATGGTCACTAGGTAAGGTTTTTAAAGTGGCCCAT
 ACATAATCTTTTGTGTGACACATTTGTTCCAGTGTTTGGATGGGGTACTTAAGGTCTGAGTTTAGCA
 TAATATAAAGCATGTAACCTATTCTTTTAAACAAAATACTGAAAGTATCCTGAGATCATCTGTGGTA
 GGCAGAATAATGACAATGACACCCCAACCCCAACAAAGACATCCAGATCCTAATCCTGGAATCTGT
 GAATATGTTAGATTACACGGCAAGGAGAAATACGGTTGCTAATCAGCTGACCTTGAATAGGGAGATTA
 TCCTGGATTACTCAGGTGGGCCACTGTAATCCTAAGGGTCTTAACAGCAGAAGAGGAGTCAAGTAGAG
 GGAGATGTGACTAGGAAGACAGACAGAGAGATGCAATGTTGACGGCGTTGAAGGCAGAGAAGGCGCA
 TGTGAGCCAAGCAATGTGGGTGGCCTCTAAACACAGGAAAAGCAAAAAATGGATTCTCCCCAGAGCTT
 CCAGAAAGGAGCGTAATCCTGATGACACCTGATCTTAGCCAGTGAGATCCATTTAGATCTCTAACCT
 CCAGATATATAGTAAATTTGCGTTTTTAAAGTGTCTAAATCTGTAATTTGTTACAGCAGTAGTAGAAAAC
 AACACAGCATTTAACTTCTTTTACAATAATGGTAGTCTGTAACACCAATTTCCATTAATTTTTTTTTTAA
 GTAACCAAGGGATAGAAATGTCACTAAGGTGATGCTGAATTTCTATAAAGACAGAATTTTCAAATCAACCA
 GATTGAATATGTGCCATTGTAGGATGGGAAGAAATAAGGCTAAGAGAATAGCAGTGGCTCCAACTGT
 ATGCTTTTGGGAACAAATTTCTGCAATTTAATGTTCTGTGCACACTTCGGATTATAAAAAATTAACACA
 CAATCAACAGCCCTGCAAAATTTAGCCAGCCATTCTTTAAGGGGAAAGATACTGACAGCTTCCATATAA
 TCTACCTGAAAAAAGTCAACACTCAGGGTAAATGTTATTTGCAAGGCTTGCCTTTTACAGCTGTGTTT
 AAAGACATTATCCTAGTGGATCACACTGTAAGTAAACTGATGTGTTTCAAGTGTGACTCCAATGA
 GAGAGCATTAATAATCTCTGTAATGTCCATTAATAATCCATAATCTTATATCAATATTTCTTTCTGCAC
 AAAGCAAGACAGAGCCTAGATGACCTCCATGAAAAAGACATGCTTAAAGTTCCAAGGCTAAGTGAAAAA
 ACCAGTATTTTTAATTTGTAGCATTACTAAATCATATCACTTTGAAAGCCAGATAACAGGTATCTTTTAA
 ACAGTAATTTGTAATAGCACTTAGAAAAAGTCAAGAGCAGGAGGGCCAGGCATGGTGGCCCTGCCTGCAG
 TGCCATCTACTCAGGAGGCTGGGGTGGGAGGATCACTTGAAGCCAGAGTTAAAGACCAGCCGGGGCAAT
 ATAGTGAGACTCCATCTCTTAAAAAATGTCAACAGTAGTATCAATATTAATCTGGTGAAAAAGGTTT
 ACCCCCAATCCGCTCTCAAGCACCTGTGGTATGTGGTGTGGTGGAGGCTTAACATGAAGAAAAACAGA
 TTCAAGTCTGAGAATCATACTGCTTCTATGGTTGAAACAGAATCTGCCCATAGGCTGAGAAAAACAGGT

FIGURE 1, sheet 37 of 66

GAACAAAAGCTAAAGAAAGATAAGATAAACTTAGCTATTTAAAAAAAAGTAAAGACATATCCAGGCAT
TACAAGTGAGAATGAGCATGTGGCCATGAGACCAGGGAAGGCAGGAAAGTGGATTGATATAAACAGTGAC
ATCAAAGAGCACTGTGAGTGGGTACAATGAGAAACACTGGCAGAACTCAGCAGCTTTCAAAC TGCCCA
ATTTCCAGGGTTGGCTCAGAGCATGCATATCTGATAACAAAATGCACAGAGCATTGCAGCTCTTAAGAG
GCTTCCATAACTATTGGTCCAAGCATGTTCTTATCACACCTTTCTTGTTTTAAATTTTTTAAAAAAGCT
GTACCAGACACACAGAAATATAATCCCATAAAAACCTTCTTGTTAGAAAAGTTGCTTTTCTTTCAATTC
ATTGCTTTTCAAACATATATTAACAAAACACAACAAAGATCAGTTAAAAAAGACATAATTAAAAAAATC
TCATTAACCAACAGATTAAAGTTTGCATCTTAAACAGTATTACACAGTTTACAAAAAGCTACATGAA
TGTGGGAGGGAGCACTCAAGAGACAGATATAAGAACATGGAAAGGTGGTCAGTTTCTCTGGAAAAAGCA
AACCAATGTTATGGAATGTGAGCACGTGAAAAACATAGATATACGGGGAAGGCCTCAGTCAGTGCATAT
CGCGGACACCGTACTCTTGCAAGAGCTCATTTCTGATTGTCCACCTGCTGCTCAGCAGGCTCTTCTGG
ATCTCTTGATCTCGCAGACATCATAAACAAACAGGCTTGGAAAGCTCAGACTCAATTCGAGCCAAACGAGG
TGCGAAGTTGTCTGATGTTTGTGTTCAACTGCTGAATAAAAGCAAAGGTCTCTTTCAGCTTCTTCAACCT
ACACATATTTGCAGAAAAACAAAACGAAACAAAAAAAACCAGTGATGGAAAAACAAAAGCCCAATACTTA
GTGGTGGAAAGATGTGCCAGTAAGAGCATTTGCAGGGTAAAAAGAATCTATTTTGCTTTGATTTTATATC
AGAACAACCTCTCATGTACCAGATACGAGTTCTCAGAGAAATATGTGAAGCTTTGCAAGGCTGTTGCCTCT
GCTGATTTTCAAAGGACTGAGAGTTAATCCACCCATGCAAAATGGAAGTCTTATCATTTCCAGAGTGAA
GCCCTTGAGACCCAGTTTCTCTCTGGGGCTCCAGAGGTGAGAAGATATGCCATTTTTTCTTAAGTGAA
AATAACCACTCTGACTTCTGCCAGTTTCTGCCGTGGGTATGCCTGAGACTGCAGCAGCCGGTGATCTA
CCCTGGGAGATTAAAGATGTTACACGCTGGTTCACCTGGTGGTATTTGGTCCACAAGGCCTCTCATGGG
ACCTCCTCTCTGAGTAAGCAGAGAACATGTGCCAAGCCTACCGCTCAGTATGAGGGGTTCAACCGC
CGTATACATTGAACACGCCATGCGGGTAGATTATGGGGCATCTCTGTCCGTCTAAAAGGGAGGGGGCAA
AGGAAATCTGCAGCAAGCGCAGTTCTAAATGTGATCTCCTCGCCAGTCTGCCTCAGCTCCCATCCGGC
CCAACCTCGCGCTGGAGCAGATTGAAAGCACACGCATGGCATGAGTACAACCTGGCGTGCACGTCCACAT
GCTGTCAAGGGGACGTGATGTAGCTGTTGGGGAAAAACAATCTTTTTCTGACATATATACTAAAAATAAA
TGCTCCAATAAACCGCTTTCTTAAAGTCTTAAAGCAGAGCGAGGTGAGCCAGGATCTGTCTGGCGTTC
TGTGGGATTTGTAGTTAATTTTCAACATTTAAAGTAAATGGCTCCAATGGAAAGTTCCCACTTATCAATA
CTTACGTTGGGAGATGCTGTGAGAACTGCACCCCATAGCTGGGAGCACTAGAGAGATAAATGGGTGCAC
GACCTTAACCTCTCAGGAAGCATTTGTCTCCATGCCACCATCACTCTTACTTGACCGAACAACTCCTCT
CAGCCCCCTAGACTTCTGCCACCTTTGGTCTGTAGCCAAAGTGTAAGTAAGTTCTAGAAGGCAAGTC
TGATCCAGCTCAAAGCTTCAATAGTCCCTGCCCTACCTGAAAAACCGGTTAGCCCCCTGATCTCTG
TACCTCAAGCATTGAGGGGCACTCTGCCTTAACTTGCACCTCTCTCAGACACTGTGCACCCACAGGA
CAGGGAGTGGCATGGCCAGGCTGCAGCCGGCCAGTTTCCGCCCACTCACAGCACCTCCACAGGGCCTG
GTGGGCAGGAAGCTCTCCACAAATGCTTGGTGAATGGACAAATACGGACAGGCCTTCCATGGGACTGAC
TTCTAGTTCCATTACCAGCTACTTTTAAAGATTTAGTGAAAGTCTTTTCACTCAGCCCCCTTATTTCAG
TACACCCGCAAGCTGCTTAAAGCTTCAAGGAAGTGGTAGCATCGGGTGGGTGAGGGCCGGAACCTCCAGA
GGCAAGCAGACCTGGGCCAAGCTTCCATCTCCCATCTAAGAGCTCTGCACCTTCAATGTACCTAACCG
CTGACTCTGAGTTTCTTCTCATGATCTGTAATAATTATCCACCTTGCAAGGTGGCGGTGAGCTTGAATAAGAG
GCTGCATGTAAAGTCACTGACAGAGTGAATGCTGGACCATGATGCTACAATCACGCTTTATTTACA
AGGCATTGGACCTCACAAAGTTCTTTCATCAGTGTTTTATTCTCAAGGGCAAGCTTGAAGAAGGACATG
TGGTCTGGAGGTGGAAGAACACAGACTCTGTGGTCAAGGCTGGGTTTGGCTCTGGCCATGTTTAAATGC
CATCTATAAAATGGTGTAAACAGTAGTACCTTCTTCACTGGGTAGCTGAGGGGACTGAATGAGATATAA
CATGTGAAGGCAGAAATGCCCTCGGAGATAAATGCCAGCAACTTACAGTTGTGATAAGTTTCAAGGAGCC
ATGTTTTCCAAATTACATCTTACTGCAAAACACCAAGGATACGTTCCCTTCAAAGCCACAGATGATTT
ATTAAGAAAGAAATTAACAGAAATCCAGGACAGGCTGGATACAGCTGAACCTAGATCCTGCCCTTCACT
CTATGGCTTCAGAGGTACACCTCCTCACCCAGTATCTTGCCACCTTGATTGCCCTGGTTCCAAAAAGA
ACACTCCAGACAACTACAGGGTAGCTGAGAACCCCTGGCACTGTGGGACAAGGAGTCTCCAGGAGCT
CCTGAGGGACTGCCCTCCTGGAAGGCTCTGCTGGAGAAGAGGCCAGCCAGAGAGCTTCCCGGGGTGG
GGGAAGGGCTCAGGCTCGTGACCTCTGCAAGCTCTCCTGCCCTCCCACTTCTCCTCTTCCCAAGATG
AAATCTCCACCGCCTTCTATGACCCCTGACCTTATCCACCTTAAAGATCTCAGCTCTTCTTATTT
TGAAAAGAAGAGGGCTAGAATCCAAGTATTTATTTATATATATTTTCTTTTCTTCTTCTTCTTCT
TAACTTAAAGCAATTAACACACCGGAAGAAATCAACTGGTTAAATGAAGGAGCTAAGTACGACACACAC
AGCCTGGGTACAGATCCACAGGACTGTGGTATCTTGAAGTGAACCTGGGGGTAGGTGTGCAACAC
GCAGAGGGGGTATGGAGAAGGTGGGGGAATAATTGCTTGGTTTCCCGAGGGCTGTGGTATCCAAAATGG
GGTGCTCAGAACAAACCAATGGGGGTAGGAATAAAATATGAGACTGTCTACTGTCTATCCCATCTTTTA
AAATTTCTACAATGTGTATGCTTTAAATTTATAAACTTAATTTATAAATAAAACATCTATATCCACGC
TGATGGCCACATGTGCTAGGCCTGTTGTGCTCCATGTTAGCAACTCATGTACTTTTTTTTTTTTTTTTT
TTTTTGAGACAGAGTCTCTATCGCCTACGCTGGAGTGCAGTGTGCGACATGGGCTCGCTGCAACCTCCG
CCTCCAGGTTCAAGTGATTTCTCTGCCCTCAGACTCCTGAGTAGCTGGGATTACAGGCACCTGCCACCAT
GCTCAGCTAATTTTTTGATTTTTTACTAGAGACAGGTTTCCCATGTTGGCCAGGCTGGTCTCGAACTCC
TGACCTCAAGTGATCCACCTGCCTCAACCTCCCAAAGCGCTAGGATTACAGGCATCATTTCTCTTCATA
ACAATGCTAGGAGATAGGTAGTATTATTTCTCTACTTGACAGATGAGGAAACCGAGGCACAGAGAGTAA
AGAGCTTGCCCAAGTCACATGGTCAATAGCGGAAGCAGGATTCTAACCTGGGTAGTCTGGTCTGGAGCTG
CTGTTCTTAAGCACTACCCATCTCTCACATAATCCACACACACTAACATGCACATAGTGGAGATACAG
GATCATTTTGTGCTGAGTCAGAGAATGACCAGAAGTCTGGACTCATAGCTCAGGATACACTGAGGGGTA
GGAGCTGATATAGTAGATGCTACAACCTGGGCTCTTAGCAGGTGCCTGGGGAGGAGGCTGGAAGGCTCAA
TACATGCTGCCACGTTTCCCTCCATGATTTTCTTTTCAAGTAAACACTTAACCATTTGCCTTGTCTTGA
TCCTGCAAGACCTGAGGATTGAGAGATAGCTGGAAGATAGGACTTCTTCCAGAGAGGTATCATCAGCTA
ATTTAGATGTAATGTTGACACTGTAATACAACATAGGAGTGTCTCAATAATAGCTGTGAAGGAGTAAAT
GATGTTCACTCATACCTTCCAATTTGTCTGATTTGTCTTCTTCAATAAGAGGTGGCCAAATAGATTTTT
AAAGAAAAGAGGTAAAGACCAGAGCATATCAGAGCCCTTCTGCCACAAAGCAGTGTGCTGCCAGCCTAGG

FIGURE 1, sheet 38 of 66

AGCCACTCGTGCTCCTCAGCCCTGGTTTCACACAGGGCCAAATGAAGCAGTGACGGACATTACATCACAG
GCATACTTAGTGCAAGTTAAAGAGGGGGGAAGGTGGGAGGGAAGGAAAAGAAGGTCACCAAGTGACAAA
GCACTCATCCAGCCAGGATTAGCCGGTATATCCCAAATCCATCCAGAGGCTAATACCTCCAAATGCC
TGGGAATCTAAATGTTGTTCTCTGATCATCAGGTAACAACCTTACCTGGGACTCATCAGGTGCACTGCT
GAGCGTGATCGTTCTGTGTACAGACACTGTAATCTAATTATCACCTGTCCAGGTGAGGAAGTATT
TGTCTTTTGCCAAACCAGGCAACTGACCTCCACATTGTTGGGCTTGTTAACACTACTCTTGAAAAATTT
AAAATCTCAAGTTAATATCTGAAATGAGAAAACCTATTTCAGAAACAGACTGCTGGCACACAGAACAA
CCACAACACTGCGTGCATCAACCACCTGAGCGCTTGTGCGGTGGCCACCATCTCTGCACTTGCCAG
GTTTTGACCCAGGTGCTCTTAACATTCTCACATAGACATTTCAACAATAACCTTTCTCCAGGAAAAAG
CAGCATGATTTCTGAAATTAATTCAGTTATGAGAATCAGAAAAACAAAATTTTAGGTACAAAAGCGA
AGTCTTCCACCTGCATAGGCTCTTTATTGGGAGACCTGAACAAAAGCAAAATGTTTTCTATGAAACCAA
CAAAAGAAATTATGCCTAAGAGCCGCTTTAAATTAGAAGATTCTTTTGCACTGATTATGGGTAATAATGC
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CTGCTCTCCCTTCCAAACAAACAAAATCAAGTCAGGTTAGCAACATTCTATATACCAAGCCTAAGCCTTAA
CAATGTATGATGAAGGCTTTACATGTCAAATTTATACATATGGAATAATTTACCATTAGTCCTATCCTC
TGTGCTCAGGAGTCTACAGTTAAATTTATAAAAGCCCTAAATCAGTCTAAGTGAACAAAAAATTCCTATG
CCTAATTTAAAAATACTAAGGAAACTGAGATGGTTCAAGTATCTGAATTTGTACTGAAATAAACAAT
AGTCAAAACCTGCGGGCAGCTGTCTGCTGCAAAAAACACTGTACAAATCCTGTACAATTTGTATCTTTTAC
ATGACTAAACATCCTTATGGCAAAATAATGCATTACTCCAAGATCCTGAAGCCCTGATTTAGGGGCAGAG
GCATTACAATACAGCTCTGAGCTCATTGCCTCTTTAAAGCATTTTTGTGACCCAGAGGACTTCCATTTTCC
ACACGGCAGTGCACCTCCTCTGCGCTTGTGTCAGAGGCAGACTGCAGACACCACAGCATGCTGACGCT
GGGAAAGAACCCTATCCCCGATGGCTGAGCACAAACACTCCGCGAGCCACCATCTCATCGGTGATTCTAT
TGTAACCAAAGCGACACAGCCAGAGAGCAAGACACAAGGACAGCAGCTGGCGCCTCGGCCCAATGCAGA
GCTGATGACGAAAATGGCACTTACTGTTGATGAGAAAAATCATTCCTTATGTTTAAAGCGAAAGCTCCAA
GTTCCCGGCTGACCTCCACCTCCAGGGCCGAGGCAGCCCTCCCTGCGCCAGCGTGCCCTCTTCACT
GGTTGAGCATCTTGCACAGAGGCGGAGCGCAGCCCTCTCCAAGGCTCCTTGTGAGCAGGCTGGCTGGCTC
GCAGGCACAGGGCAATGCCAGCGGGAAGGAGACACCTTCTCCCTGCTAACTGCAATTTTAAATCTCAG
TTTTCTTCTTCCAGTAAACAAATATCTCCAGCTTTTCTCTCACACACAGTCTTGTCTGACGCTAC
AGGATTGCAACGCTGGGGGAAGAAAGTCAACTGTTATCTTGGCTATGGGTTATTTATGAAGTGCTATAA
ACAGAGAGAAGAAACATTTAGATTGGGGCATGCAAAAGAGGATTTCTGTCTCTCAAATTAATTTCT
CTGTTTCAGGTTTAAAGAAACAGCAAAATCTGAAGCCCTGAGTCCAAAGGAATGCCTTCCTCTGTGTC
CTCTTAAAGAAGAAATATCCTGTGGGGGTTTTCTGCTCTGCCCTTTTGGTCTGAACATCCTGGTTTGA
GAGGGTCATTATGTTTATCTGCTTTGTGCAAAAAAATTTATTTTGCAGTATAAAGGGAATTTATGCGAG
AGGAAGAAATTTCTGAATTTTCTTGTGCTAGCTCCTCCAGGTTTACCATAATGTGTCTGAAAATTCCTC
CTTATTTATAGCTCAGTTTCTTTCGACAACTCCTGAGTGGCAGTGCTTGGTTTGTGTCTAGTCTACCTTA
GACTCATTCCAGCCTTATTCTGAGACTTGATATCATTTTTCAGGAGTCCCTAAAGACCAACATTTAGTC
ATTATATATCCCACTTGAACCTGAGCAACACGCTGCTATACCAGTGGAAATCAGAAAGTGACAGATCTGG
CAATAGTTCTCCCAAAATGCTGCATCTAACTCAGGCCACGTTGGTTGGCTGTTCTGCAACCTGCTGAAC
GTGAACCTCTGAGGCTCAGTACACTGGACCTGCCTGATGCTGGCCATCAGGCCGCTTGTCTATTATCCTC
TTTCTTTGGGGAGCTCCCCAACCTCAGGAAGGCATTTCTGCAAGGCTGCGGAACAGCGGCCACCCATT
CTAGAGGCAGAAAGGATCAGGCTGATGAGGAAAGGAAATGGAAGTGAAGGAGCTTCAATCTGGCTCTCCCTG
TGCTAAATAATCCCTAAATCCTTCCAGTCCCATGGATCAGGCAACCTGCTAAGACCAACGCAAGTCAA
CTTCGTGACTAGCAGCATTTGTTGGTGTTCAGAAAACCTTGAGAAAATACAGATAAAGGAGAGCAATG
AAAAGCTTTATCAGTTTAAAGGACACAGTATTTCTGCCCATCTGCAAGGCATGGAACAATCTTAA
CACAACTGCCACGCTCGTAACCTTCTGAGTTTAAACGTTAACAATTTTAAATGGCCACTACTATAAAGTAGG
TGAGCTTTTCAGGTTGGTAGGCAAAATTTAGAAGTTATGCTTGGTTTAAAAAGTTCCCTTTTATGGATTG
ATATTTCTGATAGTGAGAGCAATTCAGTGTAAACAGGAAGGAGCTAATCTTCAAGGTCATACGGTACTAG
GAAAGTCCCTCCTTGTGAGTGGCTTAATAAGGACGACAGGCCTTGTGCTAGTGGTGCTACCATCAGAGAGAA
ATTTCAGGAGAGAACATAAAATTTGATGACATTTGTTTCATGACATGTTATAACATGACATCTTCCATAATGA
ACATTTAGAAAGTACAGATAAGCAAAAAGAAAATTAACAATCATTTTCATTAAATGATTTCCACCAAGAG
AAAACCAATGTAAACTTTCTGGGAGGGTATGCTTTTCCACTTCGCTGTCCAACTGTATCAGATCTGA
ACGCTTTTCATCAGATTATTCACACATGCTGCTAGAAAGAGTCTTAAAGAGTTCTCACCTGATCCCCAA
GTCTCTAAAAGAAATTCATCAAGATGTGCAACCTGCCAGAGGGACTACTGAAGACACAGCCCCACCTGTG
TCTACAGAGCTCTGGTTCATAGGACAGCAGAGTTCTCTATTAAAGAAATGGGGAGGGAGTTCTGGGAA
ACAAAAGTAGATGAATTTTAAAGGAGTTCACTACTGGGTTTTTAAAAATAAGGGGAGGCATAGGTGAGA
TCAGGTTGGCAGGTCAACTCCTTCTGCGCATCAGTCTTATTGAGGGGATGAGATCCAAGGACCGTCTTTT
CAGAGCTTTGGCCCGTCTGGCTGTGAACGTTAACCTTGCACTTTTCTGTCTATACCCCAACAATTTGTA
TCTCAACTGTTCTTAGGTAATCCAGATTCTCCAAAACAGAGGAACACACATATTGGCAGTTCTGAAGGA
CACCTTCTGTAATTTAGTTGTCTGTCTTGCAATTCAGAAGTTTGTCTGAGTCACTTTTCAAAGACGTTATC
AAAGGCTGGGTGCAAGTGGCTCATGCTGTAAATTCAGCACTTTGGGAGGCAGAGGTGGGAGGATAACTT
GAGCCCAGGAGCTCAAGACAGCTTTGGGCAATATGGTGAACCCCATCTCTACAAAAAACAAACAACAAA
AGCAAACAACTATCCGGGCATGGTGGTGTGTGCTTGTAGTCCCAGCTACCTGGGAGGCTGAGGTAGGAGA
ATTGTTTGAGCCTGAAAGGTAGAGGCTGCACTGAGCTGTGACTGTGCCACTGTATTCCAGCCTGGGCCAT
ACAGGTCAGACTTGTCTCAAAAAAAGAAAGAAAGAGGAGGAGGAGGGGCTAAATAGACACAGATAAA
AAAAGTTTAACTCTTCTTTAATTTGACAAATGAACGTAGTAGCATATAATATTTCTGTGTCATAATCA
ACTTGGGTTCTACATAGTTACAATCACCACATATATATAGTCTTTAAATGACCTGTGTTGATGAAAT
TACCTGCATGTTTTCATAAGAGTGTAGATGTCAACCTGTAAAGAGCTGCCTGAGGGCCCATGAGGACTTT
TAAAGCTCCAGAGCAACAAGGAGGACAGCCCAATCAGAGGCTCTTTATACCCACACAGGGGCCCAAG
TAATCTTATGTGCACATTCCTGTCCCGGCAGAAATCCCATTTGCTCTTGGCTAAATTTTACCTTCTCT
GAGCTGCAGTTTCCCTCTCCGTAAAAATGAAGAATCACACTGACTTTGCACTGTTGTTTAAAGAAATCAA
TGAATAATCTATGTGAGGAGCTGGCACTTAAAAATAAGCAATGTTGGTTTCTCTCTATCTATCCA

FIGURE 1, sheet 39 of 66

ACAAATGGAGGCTACCACCTGAAATGATCAGAAATCTAATGTGGTTTTTAAGGAAGCCTATCCTAAATCCC
 ATTTTTTCTCCAGTGAATTAAACTGATTATTGAGGCCTTGGACTTCTGAAAACATTCTTAACCTTG
 AAGTTAGTTTTATAGTTAAGATCTTGCACTAACAGGCCGGGTACCTATGTAGGATCACCTTCCAATCTT
 TTTTTTTTTGAGACGGAGTTTCGCTCTGTCAACCCAGGTTGGAGAGCAGTGGTGTGATCAAGGCTCATTGC
 AACCTCCACCTCCAGGTTCAAGTCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGCGC
 ACCACCAGCCCAAGGTAGTTTTTGTATTTTTGGTAGAGATGGGGTTTCGCCATGTAAGCCAGGCTGGTCT
 CAAACTCCCGACTGCAGGTGATCCACTGGCTTCAGCCTCCCAAAGTGTGGGATTACAGGCATGAGCCGC
 TATGCTTGGCCGATCTTATTTTTAACAGAGCTGCTGTTCCCTGCCACAGGGCCAAAGCAGAATACTGT
 GGGAAGGATGGAAGAGGCTACATGGTGTCTGGATCCTGTGGGCAATGAAGCCATCAGGGCATCCCGCA
 GAGCAGGTCTTGTGCGCACGTGTTCAAATGTAAAGTTTGCAGCCTGTGCTTCCAACCTTCCCTTCCTTT
 GTACAAGGCCAGGGTGAAGTCAGCATCAGGGATTCTATGTAAGGCTGATTCTATGTAAGGCTGATTATG
 ACAGGTCCAAGTTTGTGCTCAACCCACAGATTACCTGAACAATAAACTCAGCTAAGAGCTTCTTAGA
 TTCTAGCTGTCTGTCTCAGCCTGGCCCTTGCTTTAAATAAGAAAAATGATTCCCTCCCAATTCCTTAG
 TGGCTGAAGGGATTAGCATCAGCACGTAGTTCATTTTCAAGTGTTCAAATGAGAGGGTCTGGGCTGCA
 GGGAGTGACACTGCCTAAGTTGAAATCCTGGTTACGTCACATGCTGGCTATGTAAGTGTGGGTAAAGCTG
 CTTAGCTTCAGTCTCAGTTTCTCTTGTGATGTAAATGGGCAATGGTATCTACTTTACAGAATCAC
 AGTGAAGTTTAAAGTGAATCACACATAAAAGGCATATTGTTAAGAATATAGGCAGCTGGCAATATATTTG
 CTATTTATTTCAACTCCTTTTCCCGAGCTGTCTTTCCAAAAAGATCAATAAAATTTTACCACCTGTTTT
 ATCTCTTTCCACCAAAAGGTTGGCTGAAGACAGGCAAAAGAGTGAAGGAGGAAAGCAAAATAGCCTGTTAA
 ACTCCAAAGTGATACAGCAGAGCATGAACGATTAAAAATGGACTGTCTATTCAACCTTCAGGAAACATT
 AGCTCAGATCTTGAATCCTGTATGATCCATGAATGGGTTTGTATGCCATCATACCTCGACTAGTGCCAAAGG
 CCCGAGAAGACTTAGGCTATAAAGGCGACCAAAAGACCAATTTATCCACAGAAATTATCTTATCTT
 AACGAATGCAGTGAACATTTACTCATTTCAACAAACATCTGACGCGCTATTCTAAGCTCTGAGAAATTAG
 GTAGTCCAGTTGCAAGGCTCAGTAGGAAAGACCTCTCATCACTAGACATAACCAACAGAATCATCTTCC
 ACTCAATAAACACACAGACCTTAAGAGTCTTCTCATGGAAAGTAATGAAACACACCACTCCATAAAGCTG
 GCTCATATGTGCTGGCCCCATACCAAGGCATGACACATATCCTCAGCAGACAGCACCAGCGGCTCT
 GATGTAAGCCAATTAGACCCATTTTACAGATTTAGCAACTGAGGCTTAGAAAGGTTAAATCACATACTCA
 AGTTTCCACAGTGAATAAGTGGGAAAGTCAAGAAATGGTTCAAACCTTGCTCTTAATCCTTACTTAGGT
 TTCCATCATGCAATTTCTGTAGGTTTGTGTTTTTCCCACTAGGCTGTGGAGAGAAGTTGAATTTGGGC
 CAGTCTATGTTGCCAGCCAAATCCCCCTAATATTTGTCTTCAGCAACCCCTCCACTGCTAAGGAACCCAGG
 CATGACTCAGATATTTTTCAGAAGGCCAAGTATTAGCAGAGATTTAAAGTCTTCTAAGATTTAGCCCC
 AGCCCATCTTTCTAGCTCATCTCCTATGCTTGGGGCCAGTGGGGCTTCTCATCACTTCTGAAACGGCTTC
 GATGCTGCTCTATTTCTGTACCTGTTTGTCTCTCAATGTATGTGCTCTCTCTGCCACCAGTAACCGCAA
 TCCCTCATTCAGGACCATCTGGGAACGCAGCCCCCTGTGAAGGCTCTTCTAATCCAGGAAGATGGGAT
 CTGAGCTCTCAAAACCACTTGGTTTTACAGATGCTCAGATACCTACTCCCACTAATGTAACGACTCAACT
 TACTTCTGCCTGTAATTTCTCATAGCATTTAGCTCAGTGCCTCTGTTGATTGACTCAGGTTCACTTGTGG
 TTTCCAGTAAACAATGAGGTAAAGAAAGATGCCAACTTAATAATTTAAATTTAATTTAATAATAAT
 TTAATAATAAATTTAATTTAATAATAAATTTAATAATAAGATAAAAGTATCTTACTTTTATCACCTC
 CCAATTTCTTTATTCACCTTATAGGTTCTCCTGTATATTCCAAATTTCTATGTGTTGTTCAAACATCTGAG
 CACACTGCTATGGAAGGACCCGTGTGGCCAGTGAAGCACAGCTGCACAAGTGGTCCCAAGGCCAAGTG
 ACGGTTCCCTGTATGCCACGTGGCCACTGAAAAAACATCCACCTGGAGTTTGTCTTTAGAGAGGGAATTT
 GAAGACATTTAAAAATTTTGGGCATCATCATCATTTTGGGAGGAGAGATAAAATTTACAGCGCTATTTCT
 GATAGATTGCACTGGCCAATATAGCTTTGATTTGTGGTCTTTGATTAGGACTGGGCTGCGCCCAAAAT
 CCACATCTTAGGACAAGACACCCATGGGAGACCTGGCACTCTGAGCCACACACTTTAAGAGTAGACTCC
 TGCCCTTCCCTTGAAGTGAAGTGTGGGGCAGTCATGGGCCCCCAGCATCCAGAAGCCAGGCTGTGCC
 TTACCTGATCTGCCATACTGAGGCAGGAGCAACGGGCATGGCTCCACTGTGGGGACACACAAATGCTAAC
 ACAGAGGCGAATTTCTAAACAATACCCCTCCCAAGGATCCCTTTCCAAATCAGTTTCCAACCTTTCAT
 TAAAACTACTCTAATTCATGTAAAGTTGTAAGCTAAAGAAAAAATATTAAAGTGGGATATACTAGCATAT
 AATTTCTTTTGAACACTGAAGAAATTTCCACTCATTTTTATCAAACCTTGTGCTTAATCTGTAACCTTAT
 AAAATTTGCTGGATCATCTTAGAGGAAGACTGGGTTCACTTACTAGATCTGTAAAGTAATTACTGTTCTT
 GGAGAGTAATCATTTTTAGCCCATTTCTTACCTTGATCCGATGACATCAAAAGATGTGCAACAGCATCG
 TTAATTTTGTGAGCTTGTCTGATCTCAGTCTGCTCTTGATTGTTGCTGGCCTTGATCACTGCTGATC
 CCATCTGCTTTAACTGTAACCTTGTGTTTCACTAAACAAGTTTATTTCTCCATGCAGTCTTGGCAAGGCA
 CCAAACATAAAGCCTGGCTAATTAGCCCAAACTCATTTCTTCCAGCCACAGACATAGAGTTACCTCT
 TGAATTTAAAAAAGGATAGTGGCTCATACCAATAATCCAGCAGTTTGGGA
 AGCCGAGGCAAGAGGATCACTCTAGTCCAGGAGTTCAAGACTAGCCTGTGCAACACAGCAAGACCCCACT
 TCTAAAAACACTAGCAAGGTATGCTGGCAGATGTCTGTAGTCCCAGCTACTCAGGTGGCTGAGGTGGGAG
 GACCCCTTGAGCCAAGAGGTTGAGGCTGCACTGAGCTATGATCTCGCCACTGCCTCCAGCACAGTGAG
 ACATGCTCTCAAAACCTCATACCTTCTAATGAAGCTAACTTTTCACTGAGCAGCTAAAAAGTCAGGCAAC
 GCGATCAGGCCAAAAGCAAAATATGTAAGGCAATAATTTATTTTAAATAGTTATTTAATTTCAAAGCCCTC
 TGTTCCTCTCACAGATTTCTTCAACCTACGTGGGAGCTGAGGACAACTGAGCATAACTAATTAGGCTG
 CTATCAGTTACAGTTTTTCCAGAGGTTTGAAGTGGGTGTTTGAAGTACTACAGCAAGAAATGTTATTAC
 TTTTCCCTGTGGAGACCCTGATCATTTCAAATTTATGAGCCTCACTGCTGTTGGCCTCTCCCTTTAAC
 AAGGGAGCTTCTTTTTTTTTTTTGGAGATGGAATTTTTGCTCTGTGCCCAGGCTGGTGTGCAATGGCAC
 CATCTCGGCTCACTGCAACCTCCACCTCCAGGTTCAAGCAATCCTCCTGCCTCAGCCTCCCAAGTAGCT
 GGGATTACAGGTGCCACCACACACAGGCTAATTTTTGTATTTTGTAGTAGAGACGAGGTTTACCACATG
 TCAGCCAGGCTGGTCTGAACTCTTGACCTCAGGTGATCCACCCGCTTGGCCTCCCAAGTGTAGGAT
 TACAAATGAGCCACACGCGCAGGCAAGGGAGCTTCTTAATAACAACTAGAGAAACCTTAACCTCACT
 TGGGGTATCAGCTGACATGTAAGGATATGTAAGCCCTTCCCTGGTGAACCTTCTAATGGAGAGAAAGC
 AACTCTCTCGGTACCATGCCCACTGACAATGGTCTCACTCCCATCTCTGGAACCTCTCTCTTCC
 AACTGTTCTCTCAAAGGATCGAAAAATAGTGAAGTCCCTTCAAATTTCTAAATGCTACTGGAACACCC

FIGURE 1, sheet 40 of 66

GTAACATTGCCCTGTTTGGGCTTAGGAGTGAGGAGGGCCGACAATTCCATGGTAGTCATAACTACATCC
ACCTGGGGTCCCTCCCTTACCTTCTGTAACCTTTTCAATCATTTCTTCAATACTAATGTCCGCTGTCTGTA
GAACCTTGTGTTTCCATCTGCACCAGCCAGGCACACAACCTCTTTATTTTTCATTGAATACAACCCATGT
ATTGAGTCTGTCTTCAATCTCCTGTTTACGTATGGCCACCTGCAAAATGAAAAACATTTGGCAGCTGAGT
ATAGCCAGGAAGGAAAGCACCCTTCTCTCCCTCAAAAAAAGTGGATTTCATTTCATTTTAAATCAGTAGC
TCTCCGCACTCAACCTTGTCTGGTTTGGCTCTTCTAAACCTAGGGTTAGCATCAACAGAAAGTCCCTTA
CACCTGTGATAAATGTCATAAAAAATAACAAAATAAATACTGTACCTGAAATGTAGCTGATTGGAAGGAT
TGTTTTTATCCAATACTCGTGTGTACTATCTGGTTATAGTAAAAATAGAAACAGGAAAGGCTAGATGA
AGATATAACCCAAATCCTTGCCCTTATAACAACGAATCAAAATCCTTATACCAACATAAGGACAATGTCTT
ATTTAACTTAAAACTATTAATCCAGATAAGAATGTCAATCAAAACATTTATAATGCAAAATGGACAGGAAA
ACTACAGCCGTTTAAATGTCTTAGTGTATGTCTTCAAAACAAAGCAAAACCAAAACAATGTACATCAC
TCATTTAACCCACTTGCCCGTTATGCACTGGATTTTGGATGGAACCATAAAGTATCATCAACAGCTGG
TCTGCAGCAAGCAGGCTGACCCCAAAATACCCAAATACCCCAATTATGCATAAGTAACCCCTAAACTGACAT
CAGCTAAGGGTCTCTCCCTTAAAGGTTTAAATTTCACTAAATATAAAATTTAAATAATGCAAAATCAGCCT
AACTAGATGTACAAAAGTATTTCCAGGTTTTAAGAATCTTCAGAATCTTAGCGTTAAAGGGGTGGCTAA
GAGTCTCTTTGGTAAAGTTTTGACACCCCACTATATGGACAGGAAACCAAGGGTGAATTTCTCTGAGATT
TTCCTGCTGTGTATAAAGAACTCTGCTCTTTTCGGAGGAGAAAATACTGAATGCTTATATATCCTGAGC
CAGCCAAACGTGTTAAAAAGGCTTGA AAAACTATCCTAGAAAACAAAGTGTGTGTTTCCATTCCCTCGGG
GCATCTGTTTATCTTTTAAAAATCCTGGCATTTCACATTGTCTGATTGATTTCATAATAGTAAC
AATTAGGAACATCTGGGCCCAAGTCTCTCTGTCTACCTTAACTTTCAGAACACTTTTCATATATTCTAAA
CATTTTCTTTGTATAAAAAATTGAAAAGTTCTAAAAGAACATTTAAATTAGGGTACATTGTGAATATTA
AATACTAAAATCAAGGACAACGTGTGAATTTCAACTTTTAAATACATCTCTTAACTCACAAAATGA
GATTAAGGAATTTATTTTCGTTGGAATTTCTGTCTTAAACAAAGATCTTTAAGACTATTGGAACCC
TTAATTCAAATACGTATCTGTCAAGCCTATACCGTGAATACCTCTATTAATACAAATCCCATTCTTAAT
AAGTTGAAGTATCCATTTAGAGCAACATAGCAGTTGATCATTTCTCTTACAGGATTTTGAACCAAGCTA
CTTGAATTAACATCAGGTTCCCTGTGAATGCAGAGTACTCATATGAAATGCTCCCATGCCTGGTGGGCAT
GAAGTAAGACTCTGTCTTAGGCCAGAGAGACTCCCCAGTAAAGGACCTTTCCTAGGGTCCAGCTT
CTGTATACACTGATTAGGACTTGCCACCTACACAAGCCAGAGAGCAGTCTACACATCTGTATCAGAATTGCA
ATTTCTGTCTCCACTTAAAGTGACTTTTAAAAAAGCTCATTAAAGCGTGCAAGTTCTAGCATTTAGT
GCTGGAGAAAACAAAGGCTCAAAATCTGTTAAACCTGTTGCTGCCCTCTAAAGGAGCAGCGCCGGGCCAG
GGGTCCCACTGAAAAGGCGCTCCGGTTCAATGAAATTAAGCTCCTTTTACTTTGTCTGGCTTCCAGAGA
CATTTCAATCCACTCCCAACAGCCGTGCCCTGCAGTGAGCTGACTTACCCTTAAGCAGAGGTCTCCCA
TTGTCTGTGCAAAATGCTCTTATTGCTCCTTCAAAACCATCACATCTTCCACGAGAACGTGCCGGTTAAG
TCCGCTTTCATAGTTTGAAGTTCTTTCAAGTTCTGAGTCCAGCTAGCCAAAGACTGTTCTAGTTCTCTGCA
TTTAAATCACAAGAGGGGGTAAAAAGCCTTCAACTCAAGCGGCTGTTGTTTCCAAACCTGTAGGCTAATC
CTTTGATTAGACTCTGGGGGAGGGGAGGCCAGGAGAGAGGGAGGACCTTCTGAATGGGAAACAGCCCA
GACGAGCGCTGCAGTTGTGGTTGGCCAGTTCTCCACCACCTTCTTATCAAAGGAAAACCTGTGTTTACC
TTTATTTTCAATTTCTCAGGTAGCTCTGATTTTGATAGAATTTATTTCTATTTTAAAGTCACATAGGTCTT
CATTTAGAGGAAAGTGTATTTGGAGTCTAATAATCTTTACACACACACACATGCACACATACAAATTTT
TAATCCTGAAACTACATTTAGATAAAGTGTGATTTTCCATTTAAAAAAACCTAAGAAATGCATTGCTG
CTATTGTGCAAAATCACGTAACAGCAACAACCTTCTGTTACAGGGAATTTATTTTGGTTAACTTTTGAAAA
TAATGAGTAAGTATAACGGAAGAAAAATAAACTTTTCTAATTGGCAAGATAGTTAGCAGATATTTTT
CTGGCCATGGAAACATCTATCTTTTAAATGCAGCATTTGGCTGGGCTCAGTGGCTCACACCTGTAATCCC
AGCACTTTGGAAGCCCAAGGTGGACGGATCACCTGAGGTGAGGATTCAGACCAGCCTGGCCAAACATGA
TGAACCCCACTCTACTAAAAATAACAAAATAGCTGGGTGCGGTGGCGCGCCTGTAATCCCTAGCTA
CTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGACAAGATCGCACC
ACTGCATTTAGCCTGGCTGACAGAGTGAGACTCCACCTCAAAAAAAGAAAAAAGAAAAAGAAAA
AGAAAAAGAAAAAAGAGCATCTGTCAAATGAAACCTTCTGAAATCTAGGATTTACTCAAGAGAT
TTAATTTTACAGCAGGGAAGGTAAGGAACCAACAGAACACTCAAGAGTCTACCAGATTTTATTGTG
CTTACAATTTCTCATGACTTGGCACATTTTAAAGGTCTTCACTCCTATCTGTCAAATGAAATCTGAAATA
AGATACTATGCCTTTTTAATTTTATTTTTTTTTTAAAGAGACAGGGTCTCACCTGTTTCCCATGTGATA
CTACAGTGGCATGATCATGGCTTACTGCAGCCTCGACTGACCTCTTGGGCTCAAGTGATCCTCATGCTTC
AGCCTCCAGAGTAGCTGAGACTATAGGCACGCACCACCAACTGGCTAATTTTATATCTTTTTGTAGA
GATGGAAGTCTCACCATTTTGCCAGGCTGGTCTCAAATCCCCAGCTCAAGTGATCCCCTTGCCCTCAGC
CCCCTGAAGTGTGGGGATGACAAGGGCGAGCCCATGCCCTGCTGATACTATGCCATAAATCAGGGATA
AGTGTGAAAGGCCCTAACAAATATGTTAATTTCTGATTGATTTTCAGAGTTCTAAAAGCTACACTGGCATGA
TTTCATAACTTACCAACAAGAATTTATGTTTAAATAAAATGGCCAGAGAATCTTTTTAAAGGTTGCATG
AAGATTGAGGAATTAACACCTTTCTCAGAAGATAAATCATTAGGTATTTAAACATTTTATTACCTACTTT
TGGTCTCACGATTGGTTCCAGTAGATGACAGCAGATTCCACAGTGGAACACTTTGGAAGCTACATAACA
TAAAGGGGCCACCTGCCAGCTGAGGTGTACCCTTACTGACTTGAAATTTGGAGATCTGGAACCTCTGA
GCTTCAAACAGAGTTTCCAGTCAGGTGGCAGGAAGCTCAGCCTGTCCAGTGCCCTGCTCAGAGGTGCTG
GCTCGGCCACCGAGTTATGCCCGGCCAGGTTCAATCAGTTTGGTTTGAATACTTACAATATTGACAATC
GGAAAGTGTACAGTCACTGGATAAGGTTGAGACTCCTGTTTTACTCTCACTGCCCTGCCCTTTTCCCCCTC
TAACACTCACCATGTTTACATACATACCTATGCTA
CAGTGTGGCTCTCTGGCAGACTGGACCATTAGCTCCACACATGGCAGGGACCATGACAACACTGCTCAG
GATTGAGTGGCCAGAACCTGCCATGGTGTCTGTCACAGCAAGTTTCAGATACCAAAATGTACGGCTGA
AAGGAAAGCAATTTGGCTGTATCTCTCGAGAGCTTTAAATGTTTATAGAACTAAATGAAAAAGCAGG
GAGTCAAAACAATATAGAATGAGGTCTCTTGTGGAAGTTTACTAGAGCTGACGATCAGTTGTATATAAA
ATGTCAACAATCATGCCCTGTCTTTAAATTAATTTGCTCCCTCTCCCTCTCCCTCTCCCTCTCCCTCTCCCT
ACCCCTCTCCCTCTCCCTCTTTTCCACGTCTCCCTCTGATGCCGAGCCCTCTCCCTCTCTTTCCACGGTC
TCCCTCTGATGCTGAGCCAAAGCTGGACTGTACTGCTGCCATCTGGCCTCACTGCAACCTCCCTGCCTGA

FIGURE 1, sheet 41 of 66

TTCTCCTGCCTCAGCCTGCCGAGTGCCTGGGATTGCAGGCGCACGCCACCACGTCTGTCTGGTTTTCGTA
 TTTTGTGGTGGAGACGGAGTTTCGCTGTGTGGCCAGGCTGGTCTCCAGCTCCTAACACGAGTGATCT
 GCCAGCCTCGGCTCCCGAGGTGCCGGGATTGCAGACGGAGTCTCGTTCACTCAGTCTCAATGTTGCC
 AGGCTGGAGTGCAGTGGCGTGATCTCGGCTCGCTACAACCTCCACCTCCAGCCGCTGCCTTGGCCTCC
 CAAAGTGCCGAGACTGCAGCCTCTGCCCGGCCGCCACCTGTCTGGGAAGTGAGGAGCGTCTCTGCCTGG
 CCGCCCATCGTCTGGGATGTGAGGAGCCCTCTGCCTGGCTGCCAGTCTGGGAAGTGAGGAGCGCTCT
 TCCTGGCTGCCATCCCGTCTAGGAAGTGAGGAGCATCTCTGCCCGGCCGCCATCGTCTGAGATGTGGG
 AGCGCCTCTGCCCTGCCGCCCGTCTGGGATGGGAGGAGCGCTCTGCCCGGCCGCCACCTGTCTGGGA
 GGTGAGGGGAGTCTCTGCCCGGCCGCCCGTCTGAGAAGTGAGGAGCCCTCCGCCCGCAGCTGCCACG
 TCCGGGAAGTGAGGAGCGTCTCTGCCCGGCAGTCGCCCGTCCGAGAAGTGAGGAGCCCTCCGCCCGGC
 AGCGCCCGCTCCGAGAAGTGAGGAGCCCTCCGCCCGGCAGCGCCCGCTCCGGGAAGTGAGGAGCGTC
 TCCGCCCAGCAGCGCCCGTCCGGGAGGAGCGGGGGCAGCCCCCGCTGGCCAGTCCGCCCGTCCGG
 GAGGGAGGTGGGGGGGGCCTCTGCCCGGCCGCCCTTCTGGGAAGTGAGGAGCCCTCTGCCAGCCGTC
 ACCCCCTGTAGGAGGTGATCCCAACAGCTCATTAGAAGCGGCCATGATGACTATGGCGGTTTGTCAAA
 TAGAAAAGGGGAAATGTGGGAAAAGATAGAGAAATCAAATTGTTGCTGTCTGTGTAGAAAAGAGTA
 GACATAGGAGACTCCATTTTGTCTGTACTAAGAAAAATCTGCCTTGGGATGCTGTAAATCTATGACCT
 TACCCCAACCCCATGCTCTCTGAACATGTGCTGTGTCCACTCAGGATTAATGGATTAAGGGCGGTGC
 AAGATGTGCTTTGTTAAACAGATGCTTGAAGGCAGCATGCTCGTTAAGAGTCATCACCACCTCCATATCT
 CAAGTACCCAGGGACACAACACTGAGGAAGGCCGAGGGTCTCTGCCTAGGAAAACCAGAGACCTTTG
 TTCATTGTGTTATCTGTCTGACCTTCCCTCCACTATGTCTATGACCGTGCCAAATCCCCCTCTGCGAGA
 AACACCAAGAATGATCAATATAAATAAATAAACAATAAATAAATAAATAAATAAATAAATAAATAAATA
 AATTAATTTGCCCCAGACTTGCACCAAACTGTCAAAGAGATAAGTTTCCACCATCTTCATCAACACAGA
 TAAATTATCTATACCACAAGAATACCTGAAAATTTCCAATTTTTTACGTAACATGGGATGTAAAATTTCA
 AGTTGTTTGGCTGCGAAAAGCGGTGTGTGTCACAGGATTGACTGGACTCTGCGAGTATCAGGACAGCATC
 TAAGCCTTGCTGTGGACTCAATTACAGTGGAACTGTCAAGTCCCATTCTCTGTACTACCATTTGGGT
 AAAGGAGGACCAAAAAAGAACGGGTATATAAATAAATTTGACCTGCATATGCATACCTCTATCTTTGGAA
 GAAAAATACAACAACTTGTAACTTGATTGCTTCTGTGGAGAGGAACCTGATAAGAGAAAAATTTTACTTA
 TACAAAAATTTATTTAAAAACCAACTGTTCAGGACTCAATCTTTGGACAAGTGTATGAAACACAGAT
 GTCCATTGTAGCAATTTTCATAATAGTGAAGTTAGAATATATGTAACATATATGTAAGGAAATTTATC
 CATTCCTCAACGTGGCTGTAGTGGGAATATAATTTTCTTTTATCTTTTATCTTTTCTTTTCTTTTGCAGC
 TGTGCTTGAAGGGAATATAATTTTATGAGGAGGAAAGTCAAGCTCAAATTTGGTCAAGTGGCTAGCGTAT
 TTCCCCAGGTGAATCAGGGATGAAACACACTGACCTGGACAAGCTTTGGGTACTTTGGGATCTTTTCAG
 AATATGGTCACGGGTTGAACGAACCTCAATGCTTTTGGCTTTCCCTGATTACTTTCCACTGATAAATAGG
 ATGCTGAGACCGTGAAAGCTGAAAAGATCCCACTGGAACTGAGAAGTGTGATACTTGAGAAAAATATG
 GCTGCTCAAGGGTTTACATTTTCATGTTCTGCACAGGTTTCTAGACCTTATGGAAGGAACTCTGTGTTT
 AGCTGAGAGCATGACTCCAAATTTTCCGTTGTTACCAAGCTTGTCTAAGCCTAATGAGGTAGGGA
 TGATAAAACTTTGAAATTTGGCATAGAAATCTGTTAACTTAATAAGCCACTGACTGACACATCAACC
 ACCAAATATCACATTTAACAGTGAATGTTAGAATCATTTTCTTCTAATAATCAACAATGGAAGACTCAGC
 TATTAACTTCTCTTAAACATGTTCTGAAGGTATTGACCCGTGTAGGAAAAATAGGAAAAAAAAGT
 ATATTAAAAAGAAAGAACCAACAAAAATAACCTTGTCTATTGACAGATGATGATGGTCTCATAGACAC
 CCAAAAAAATACATAAACGAATTTATGGAATTAACATAAGAGTTTAAACAAGATGGTTAAACATAAATATG
 CAAAGACCAATTACATTTCTAGGCATCAGCAATAATCAGTTAGGAAATATAATTAGAAAAAGGCAGTATT
 TTCAATAGCTTCAAAATATTGCACCAAGAAATAAATCTAACAAAGATATATCTTTTGTGATTAGGAAA
 ATTATAACAAGAATAAGCCAGGTGTGGTGGCTCAGGCCTGTAATCCAGCACTTTGGGAGGCCAAAGCAG
 GTGGATCACTGAGGTTGGGTTGAGAACAGCCTGGCCCAACATGGTGAAACCCCGTCTCTACTAAAAA
 TACAAAAATTAGCTGGGCGTGGTGGCGGTGCTTATAATCCAGCTACTTTGGGAGGCTGAGGCAGGGGAA
 TCCCTTGAACCCGAGGAGAGGTTTCAGTGAGCCAAGATCGTGCCACTGCACGCCAGCCTGGGTGACAA
 GAACGAAGCTCCATCTCAAAAAAAAAAAAAAGTTATAAACCATTAGTGAAAACAACTAAATAATATGA
 CCAATAGGCAATATATACACAGCTCATGAGCATGAGCAGGAATACTAAAAATAATTATCCAAGTTAATCT
 AAAATTCATGCAATTCAATTAACACTCTTATCAGAACTTTTCATGGTTTAAACAAGCTGTTCTCTCAAAGT
 TACGGAAGATCAAGACCCAGGACATCCAAAGTAATGTGAGAGAACAAGGTGTGGGTATACATCACACC
 TGAATAAAGATGTGTTACAATAAAGTGCAAGTAATCAAGACAGTTTGATATTAAAGCTGACATACACAGA
 CCAGTGGAACAGAGAAGTGAAGAACAAATCCTGCGTTTATGGAATTTGGTATTGACATTAGACAATAA
 ATAGGCACCAAGACAACCTGGCTATCCATACGAATAAAATAGAAAATGGATCTCTGCCTTAAACGATATG
 CAAAAATCAATTCCTCAATGAATAAAGATGTGAATGTGAAAATCAAAACTAAAACTTTTGAAGAGAA
 TGTAAGCACGTATTTTATGACTTTAGTATGAAGATTTTGCAAAGGAAGCGGAAAAATACAAATCATATAGG
 AAAATACTGACCAATTCTCCACATTAACAAAATATCTTTTGTTCAGCCAGCAATACCAAGGAAAACGCA
 GAAAAACAGGCTCTCAGATGGGAAAAGACATTTGCAATGTATATACTCAGTAGAAGAGGAATATTAGAA
 TAAATAAGCAGCTCCTCAACTCAATAAGAAAAAGACAAATAGCCCAATGGAAAAAATCAGTAAAAGGC
 ACAAATAGGCAATTCACAAAAGGGCAAAATAGAAAAAATGTGCAACTGACTAATAAACTATAAGAGAT
 ACTATCTCACAGCTGCTGGATTAGCAAAAGTTTAAAAAAAATCTGACAATACCAAGTGACTACAGAAGG
 GATATATAAATTTGTGTATATCTTATAATGCATACTATACAGCAGTGAGAATGAATGTGCATTAGGTGC
 CAACATCTATGACTCCAAATCACAATGAGGGAAAAAGTTACATTGTAGGCCAGGCGCTGTGGCTCACGC
 CTGTAAATCCAGCACTTTGGGAGGCTGAGGCACGAGAATTGCTGGAACCCGAATGGTGGAGGTTACAGTGA
 TGGCCAACGTGGCGAAACACCATCTCTACTAAAAATACAAAAAATTAGCCAGGCCTGATGGCACATGCC
 TGTAATCCAGCTACTTTGGGAGGCTGAGGCACGAGAATTGCTGGAACCCGAATGGTGGAGGTTACAGTGA
 GCCAAGATTGCGCCACTGTATTTCCAGCTGGGTGACAGAAGGAGACTCTGTCTTAAAAAAGAAAAAAA
 ATTACATTTATATAGTACTGCTTATATAAAGTTTAAAAATTTATGTATTTTGTATTCTTTTATAGAGACA
 GTCTTACTCTGTCATCTAGGGTGGAGCATAGTGGTGCATTATGAGTCACTGTATCTCGACCTACTGGG
 CTCAAAGGATCTCCACCTCAGCCTCCCGAGTGGCTAGGATCAGAGTCAAGTGCCACCACATCCAGCTA
 ATTAAAAAAATTTTGTCTGTACATATGGGATCTCACTTTGTGCTCAGGCTACTTCAAACCTGCTGG

FIGURE 1, sheet 42 of 66

[illegible]

FIGURE 1, sheet 43 of 66

ATTGAACTAGGTATTTATAATACAAAAATAAGTAAAACTTTAAAAATTGATCCATACTCCCAAAGGCA
TTTGGTTTTAGAGGAAAAATTAAATAGTTTTTGTCTGTTCTAAATATGTTTTCTCGGCTGGGCATTCTGG
TGAGTGCCTGTGGTCCCAGCTACTCGGGTGGCCGAGGTAGCCTCACCAGAAGTTTGAGGTTACAGTGAGC
TATGATCAGCCACTGCACTCCAGCCTGGGAGACAGAGTGAGTACCTATCTCTAAAAATAAGTAAATA
AATAAATAATACATAAATATTATTTCTTCCCTTGAATTTCTTGAAGGAGACAAAGTGTTGGGCATTTT
TCCAAAAATGGGAGCTGATAAACATCAACAGAGCATCACTAATTTACAAAGGCATTTCTGAGAAGCCTGAA
GATCACCCATACCCAAAGGAGGAAAGCCAAATGCACCTCAGGAGCAGCACAAAAAAGAGAAACAGCA
ACTGGACCACAGGCATCCACGTGCATCTCTCCACATATTGTGCTGCGCAATGAGCCACTCGTATTAG
ACCTGCTCCTCCTTAGTCTTCCCTAACCTCTGTCAACAGCACACTATTACCAAGATGCTTGAGCTTCAA
CCCAGAGTCGTCTTCTAGCTTTTCTTTACCAGACTCACAAACCGACACTCCAAAATACGGTGT
TGACACGCTGAAGTGAAGTCTCAGGGTCTCTTACCCTAACGCACTGCGTCTCTACAGAAGCTGAA
GTCCTTTATCTGCCTAAGACCCGGACTCACCAGGAGAAATGATGTTTTCTTTCCCTCCTCTGTACCT
CATTATCTTATTGCGAAAAAGAACCCAGATGTAACCACACCCAAATAGGCTCTTTCAAGATGACTGCC
TCCAGCGATCTGAAATTTCCAAAGATAAATTTTTTTTTTTTCCAGACAGGTCTGCTCTGTTACCCA
GGCTGGAGTGAGTGGTGTGACCATGGCTCGTTGCAGCCTCAACCTCCCGGCTCAAGTGAGCCCTCCT
GCCTCAGCCTCCTGAGCAGCTGGGAGTACAGGCTGCACCCACACCTGGCTAAATTTTGAATTTTTT
GTAGAGACAGGGTCTCACTATGTTGTACACAGGCTGGTCTCAAACTGGGCTCAAGGGATCCTCCACCT
CGGCTCCCAAAGTGTGGGATTTACGCAATTTCTATCAAACTGTGGCAGCTCTGCTCCCTCCTCTCAA
ACTCATGTGGACACATATGATAGCCTTCATTGTTAGAGTGTGGCAGAAAGCATATATGTGACTTCTGAGG
TTGGGTTTATAGGGCAATACAGCTTGTCTCGGGATAAGAACTTTGAAACCATTTGGGGTACCATATAAG
AAGTCTGGCCACTGGAAGCCCTCACGTGTAACACAACAGAGAATGATGCCAAGGAGAGGAGCTCCACT
GTCCAGCTCCTGCTGCTCCAGTTGTTCCAGCCTAAGCATCAGTCATGTGAGTGAGCTTCAGATGACAC
CAGCCCCAGCCACCATCTGACTGCAACTGCCTGAGAGACCCAGCAGGAACCCCAACTCCTGTCAACC
CCAAGAAATGACGAGACAGAAATGATGAGTGTCTTATGCAGCGATAGGTAAGTGAGATGTTAGGATTCCTA
CTTTTCTTTTACGTCCCTTACATCAGGAACCCAGAGTGATCTTTAAAAATATGGGGCTGGGCACAG
TGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCTGAGGTGGTGGATCACCTGAGGTGAGGATTCGA
GACCAGCCTGGCCAAACAGGGTGAAACCTTGTCTCTACTAAAAACAAAAATTAGCTGGGCATGGTGGCG
GGCGCCTGTAATCCAGCTACTTGGGAGGCTGAGACACGAGAATTGCTTCAACCTGGGAGGCAGAGGTTG
CAGTGAGCCAAGATCGCAACACTGCCCTCAGCCTGGGCGACAGAGTGAGACTCCGTCCCAAAAAAAGA
AAAAACAAGCAAACAGTGTCTGCTGCCCTCTCCCTCAGCTGAAATGCTTCAAAGGCTCCCTGGTTCAGC
CAGACCAGGTAATCCAGCTGCCACACCCAACTGCAAAACACTCCTCCTACCCGCCTTTCTAGTTCACC
TCCTGCCACTACTGCCTTGCCAGCTCTGCGCCAGTCACACTGGCCTTTTGGCGTTCCTCTGTGCTGAGC
TTGTTCTCATCTTGGGACTTGGAGTAAGCCTCTCCTTCACTGCTGAAAGGCTCTTTCTCTAGATCTTGCA
TGGCTGGCTCCTTCTCATCATTCAGTCCCAGGTTAAATGTCACATGGCCAGAGACAACCCAATCTAAAGG
AGCCACACATCCCATCTCTACTGGCCCTGTTTTAATGATCTACGTAAGTCTTATTACAATCTGATATTT
TATTATTTATTAATTTATCTGATTAATATTCTGGTTTACTACTTTGTCTGCCCTTATGAGAGCGAAGGT
CTTCTCCCTCCACAGAAATACACCCAGCACTTAGGACAGTGATTGGCACAGAGAAGGTACTCAATTAAT
ATGCGATGATTGCATAATGAGTGAGGGCTGTACAGGATTTTCAAGAGGTTGGTGTGTTGAGAGGCTTCT
CTAAGGTGGAGAGTAGCTCTACAGCTCCATGGGACATGCCAACCACTATGCTAATCCTGTGCTCATCAG
GCAAGTTTCTTTTGGAAAGCTTTGTTGGCTGAATGAATTTGCCCTTTATTTTATTTTAAATCAG
TTTTTAAATTTTTGTGAGTGCTAGGTTTTTAAATATAGGCATGCAATGTCCAATAAGCAGATCATGGA
GAACGGGGTTTCCATCCCTCAAGCATTTATCCTTTGAGTTACAAATAATCCAATTACACTCCTTAAGTT
ATTTAAAAATATATAATTAATTTATTCGACTATAGTCACCTACTGTGCTATCAATAGTAGGCTTTA
TTCATCTATTTTGTGATCCCATTTGAATTTGCCCTTCAAGAGTAACAATGCCATCAGTGTACATTAC
TACATTAATGGTCAATTTATACATTTAGTCAGTGGCTTAAAGATCTGGGTGGTTGAGTCTGTTGCCCTAA
ACCTCCCCAATTTATTCACCATCTCCACTCCATGCCTCCTCTCATGGCCAGAGAACCCTAGTATTT
CTGATGATGATGGGTAATATCGGGTTTCCAACCCCAATGCTAGGGACTGGGCTGTGGGGGTGGTGACT
GCACCTTGTGGCTCAGACTGCAGAGCCCACTGGATCAGATCATCAAAAAATTAACCAAG
GTGAATGAACATCTTGCAAAACATGACCACCTGTGGTTCTCAGACTGCTACGATGCATACACTACCTTC
AGCTCATGGATCAGACTTCTGGTTTGGTAGAGGCTGAAGCGCTCCTGGCCCTTCACTGCAGATAGCAGGT
GGCTGGTGTGAGTGAGGAAGCGAAACAGTTCTCCACAGAAGTAGTGAATCTTGCCACTGCCTCACCAG
CCCATCAAGTCAACCTTCTCTGCGCAACCCCTGGACAGCATTTGCCACCGATCCGTGAGCTTTGAG
AATCTGTAATAAATCTGGTCTGGGAAAAACAAATGGTTATAGAATCCAGACATCGACATGTAGAAAA
AATAACTATCAGTGGGTAATAGCAGCTCAGATTCAGTTTTTATAGTACAATTTACATGAAAAAATCCC
AACTTCTAAACACCTGAGTGTATTCAATTTAAACATGATTAAGGCTTTGGGAAGGGCAGCATGCAGACT
GAGTTTAGCAGAAGGTATCTGCACGTAACCTGGTATTTTGCAGCATGCATAACCATTCCTTAAACAAA
CTGAAGCTGTTTTATATACATTAGGCCAAACGTGGAAAGGAAACTAGAACTGGATCAAAGGGAACA
GATGAACAGGCAGGTACTTTGTAACACTATGGATTACTTGAGTGACTTTACATAATTTTAGCAATAAAG
AGCATGCTTTATGACGCTACTCAACAGTTCTTTCTGGATAAATAATCCTTCACACGAGAAATAAGG
CCTCTGTTTATTATGGGAAAGTCATGTTTTTCTGTACAGATCAATAGAAATTAGCTTATCATCTGGA
ACTGGCTTGCAATTTACTGCTTCAGAGCTAGGGAGAAAAGGGCTTTACATTTCTTAGTTATGCTGAAAGAA
GATTCAGAGGTGTATGGTGGTGATGTGGAAGAAAATCATACCCATTAGGACATTTAGAGAAGTATTTA
AATGGCCAGGCCATTTCCAGGCTATCTGCCATGTGTACAGCTGCATGAGCAGACTCACTCAGCATTAGCA
GACTGGCCAAAGGTGCTGTGTTCCAGCTGATTGGCACTGCCAGTGACCTTAAGCCACATATGTAGCAT
GGAGAGAAAGCCCTTCTTTCAGACTTATAGGATTTAGCTACCTACTGGGAACATTAGGAATAATCATTTT
TTAGAAATTTATTTTAAAGTCCGAAACATCATGAGGATGATGGTAGAGAAGGAAACAGTACAGAGAAT
CATTTGGGGCACAAACTTAGTTAACTATACTTGAGAAGTGGGCATTTCCAAAGCTTCTGGGCTGCTAA
CCCCATCCACCTACCATACGAAAGGTGCTGTGCACAGATGTTTTATGGTCAACCCAGCAAGATGTAGT
CCCCTACATAGTTAGAAGCCTGGTCTATGGTGTCTGTCAACCAACAGGGCACAGGGCACCACATGG
TCAAGGTTTCATGGTGGAAAGCCTGCCCTGACTGAATGCATTACCTTCCATCCGCCACACCTTCATG
AGGCCAGACAGCTCACCTGTTCTTATTTCTGTTGTGCCAGAGTTGTAAGGACTGGGTGACATAGGA

FIGURE 1, sheet 44 of 66

ATCAGCAATTGTCTGGTTTATAGAACTTCAGCTTCTAACATCTGTATATGAGTCCAAGCAGAAAAATATC
 AGCTAGTAAAAATTCATTTTATGAATCTCGGAACCTACATTTCTTATTAATACTAAGCTTACAAAGGATA
 TGAGGGATAAATTAATTTTCATATTATTTGAACCTACTGCAAAAAATGTTCAACTATCATATCAACATCAC
 CTACGAATATATTTCTTAAAGCAAAACAGGTCTAATAATAATTACATCTAATACCCATTTGTTGGGCATTT
 ACGATTTGGTAGGCACGTGAAACATGCATTGTCTCATTTATTTCTCAGCCTTAGGATTTAAGCACTATT
 ATTACATCCATTTGAAGAGGAGGAATCTAAGGTATAAAGAGGTTTCAGTAACCTACTTAAGGCCACTCAGC
 TTTTGGCAGGGGTGATTTCAATTTAATTGGATGATCTTAATGTAGCAATGTAGACTTCAATCAGTTACA
 TTAATAAGTTGCAGTGAAGTAATCTGCACACTTTTGAAATGTGTCTTTGTAATCCAGCACTTTGGGA
 GGCCGAGGCAGGCGGATCACTTGAGGTCAGAAGTTCGAGACCAGCCTGGCCAACATGGTGAACCCCATCT
 CTACTAAAAATACAAAAATTAGCCAGGTGCAGTGGCACATGCCTATAGTCCAGCTACTCGGAAGGGTAA
 GGCACGAGAATTGCTTGAGCCTGGGGGTGGAAGTTTCAGTGAGCCGAGATTGCGCCACTGCACTCCAGC
 CTGGGTGACAGAGGAAGACTCTGTCTCCCCCACCACAAAAAAGCAGGATCTGCCTATAACCACAGGAGT
 ATTTTCAAATACATGTGAGCATAAGCACTGAGGAACTCCTGTGAAATTATTAACGCTACAGTTATAATT
 ATACCAGGTGCTTTAATACTATGGAGAATTATTGAGTGAAATACAAACATGAGTCGAAGTATTTTATTA
 TACTCTTGATAGAATGGTATAATGTTTGCATTTTGTGGAAGCAAAGTTGTACTAGAAGCTTCCATGTACT
 GCAGAAAACTAGAGAGTCTCTCCCTAATAAATAAGAGCAGTAAATGTTGAAATTTATGAAACGTACAAG
 AATTTTACAAATTGACCAATTGACAACCTGAATTTGCTTAAAGGTATACATTTCTGTGTTAGGGACTGATAG
 GTACACTCCCTGTGTTTATTTAAAGCTATCTTTCCCTGACTCCTGCCCCAGATGAGCGGTTCAAGGGTG
 GCAGAGAACACAGGTTTACCTTATAGGTTTCTGCTGCTCCAGGAGCTCAGGAAGGCTGTTAGCCACATC
 CACTTTGAGTGCTTCTCTATCTTCTCCAAAGTTGGATCCACTTTTCACAGCAATAAAGAACTTTTCA
 TTCAATCTCAATTCCTGAGCTCACTACAAAGGTTTAAACAAACACACCCATGTTAACATGCCATTC
 CCGAGCTGAAGCCGTTAATTTTACCTTAATTGAAACAAACGACAGAGAAGGGATGTTCTAACCTGCAGCGC
 TCCAGTGCCGTGGCCGTGGCCGAATCCATTGCCGTTTCATATTTGTAAAGCTTTCACAGCTACGTCAC
 TAAGTGGGAGCTTGAGGCTCACTTCATTTCAAATGTTCAATATCAGGTGATTGGGCTGTCAGTGCCAGCAC
 ATGATCTTATTTTAAAGATAAAGGAACTGAGGTTTGGATGCCAATAAGATATCTAGATGACAAAAAC
 CCTCTTACCTCAAAGATAAAGGAACTGAGGCTGAACAGGCAATGACTTGCCACAGTCAAACAGC
 TTGCTAATGTTAGAGTGGGACCTGAATTCAGCTATCTCAATGCTGTGCCTTCTAGAATACCAACCTGCAA
 CACGGCCAGCACCCAAACAGCCAGGAAATAGAAAGTTATCTCAGATTTTGTACCAGAAATACAGAAA
 ATAGGCTTTTATTTTATTTTATTTTTCGGAATGGAGTCTCATTTCTGTCGCCAGGCTGGACTGCAGTATCA
 TGATCTCGGCTCACTGCAACCTCCGCTCCTGGGTTCAAACGATTCTCCTGCTTCAGCCTCCCAAGTAGG
 TGGAATTACAAGTGCTGCCACCACCTGGCTAATTTTGTATTTTATGTTTACCATTGTTGGCCAGCT
 GGTCTAAACTCTGACCTTGGATGATCCACCTGCCCTCGGCTCCCAAAGTGCTGGGATTACAGGCGTGAG
 CCAGTGCAACCCAGCTAACATGCTTTTAAAGGAGCAATTCGGGCTTTTAAAGTCCCATTTAGTCTG
 CCAATAACCTGGCCTTCAACAAACAGGTCAGGCACAGAGTGATGAAAATTTGATTCTTAAATAACTCTA
 GCAGAGCAAGGGACTTAAACACCCATATTTTATAGAACATGACATTGCAAGAAAGCAAACCTTATCAAAA
 TTTTCAATTTTAAAGATATTTCCAGCGACAGCTTCTAAGCTGACAAGCAAACATCCTTAACAATATTGAA
 GTTACCACCTACAGAACTCTGCTGTAATATTCTAGGTCAAGATAAGCAAACCTTTTCTGTAAAAGGGCAGA
 TCATAAATATTTTAGGCATTTGTGGGCCATATGGTCTCTGTAGCAACTAGTCAACTCTGCCCTTGTAGCG
 TGAAGAACTATAATAGACAATATGTAAATGAAAGGGCATGGCTGTGTTCCATCAAAATTTTATTTAAAAA
 AAATCAGTGATGGACAGTGCACCACAGTTTGTGACTGCTGATCAAGTTATGAATATTGATTCTTAGGA
 GAGTTACAAGACAGATCTAATTTCTTTCAGTCAATTTATGTTTACTAAACTAACTTACGAAGGTAAAGAA
 AAATGCATAATAGAATTTTATTTTATTTAACTAACAGAAAAATTCATTAATCACAACAGCCAAATTC
 TAGATTATTTTCAAGTTCAGTGCAGGTAATTTGAAAAACATCTACTACAAATTAAGTACGATTTACTA
 AAAGAGATCCCTATGTCATCTACTTTTCTAGGCTGAGGGAATAGGACAGTAATGAATGGCATAAA
 AATGACTGTGCTCAAGGGTGAGTTAGGCCAGGCGAGTGCTCAGGCCTGTAATCCAGCACTTTGGGAG
 GCCGAGGCAGGCGGATCACTGACGTCAAGAGTTCAAGACCAGCTTGCCCAATATGGTAAAACCTTATCT
 CTACTAAAAAATACAAAAATTAGCCGGACATGGTGGCACATGTCTGTAGTCCAGCTACTTTGGGAGGCTG
 AGGCAGGAGAATGGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATGCTCCACTGCACCTCCAG
 CCTGGGTGACAGAGCGAGAGTCCGTCTCAAAAAAATAAAGAGTGAGTTAGGATGCAAGCATTCAT
 AAGTTCACAGTAATCAGCTTATTTTCTTAACTTATGGTGAGTCTAAGCCCTTAGAAAAGACAAATATT
 GGCAATACCAGGAATGAGTCAGGATTTCTTTTCTCTGTTGGTGAAGTCTATCCAAATCTCTTCTTCTCAT
 GCATAATAAGACCTTTTAAAGATTCCAGCCGAGTCCAAATCCTTAACTGTGAGAGAACAACCTAGAA
 CAAGAGAAATTTTCATTAGAACTATTTTCATGTACATATAAACAGAAATTAACACAGGCTTGGGAGCT
 GCTAAAAATTCAGATGTTTGGCTAGGCACGGTGGCTCATGGCTGTAATCCAGCACTTTGGGAGGCC
 GAGGTGGGAAGATTGCTTGAGCCAGGAGTTCAAGACCAGCCTGAGCAACATAGGCAGACTCCATCTCTG
 CAAAAATAAAAAATTAGCTGGGCATAGTGGTGTGAGCCTGTGGTCCAGCTTTTGGGAGGCTGAGGCA
 GGAGGATCAACTGAACCTGGGAGGTCAAGGCTGCAGTAAGCTGTAATTATGCCACTGCACGCCAGCCTGG
 GTGACAGAATAAGACCTGTCTCCCTGTCTCAAACAAACAAACAAACAAACAAAAAATAA
 AAAAAAGTAAATTCAGTTGTTTCAACACCCAGAAGTTCACTATTATCTCAAGAATCATAGATAAATAT
 TCAGAAACCCCTGATTTTCACTCGTGCCTTTGAGCCTTCCCAATGACAGATCACCAGCCTGAGGAG
 ACCACATAGAGAGTCACTGAGCACTCCGTTCTCTCAGTCCCACTAGTTAAATGTGCTTTTTGTTGTTT
 GTTTTCTGCTGGTACTGAGATGTGATACTGCAACTCCATGGCCTTCTGTGTAGCTTGTGACAGCTCCT
 GCCTAAAGGCTTTATAAAAGTGAATGAAGGCTGAGAGCAGTGCTCATGCTTGAATCCAGCACTTT
 GGGAGGCCAAGGAGTGGTATGATCAAGGCTGAGGAGGAGTTCAAGACCAGCTTGCCCAATGTGGCAGAACCC
 CATCTCTACTAATATACAAAAATTAGCCGGCCAGACACAGTGGCTCACGTCTGTAATCCAGCACTTTT
 GGAGGCCAAGGCAGGTGGATCAGAGGTCAGGAGATTGAGACCATCCTGGCTAACATGGTGAACCCCTGT
 CTCTACTAAAAATACAAAAAATTAGCCAGGCATGGTGGCAGGCACCTGTAGTCCAGCTACTCGGGAGG
 CTGAGGCAGGAGATGGCATAAACCCAGGAGGCGAGCTTGCAGTGAGCTGAGATCACACCCTGTACTC
 CAGCTGGGCGACAGAACGAGACATCTCAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA
 AGCAAGCCAGGCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 GAACCCGGAGGTTGAGGTTGCAGTGAGCCAAGATTATGCCACTGCACCTAGCCTGGGTGTCAGTCAA

FIGURE 1, sheet 45 of 66

GAGTCTGCTCTCAAAATAAAAAAAGTGAATGAAGACACGAAGATATGACAAATCATCATGCTTTAAGCAG
CTACTTCTATGGCTCAATTACTTGACTCAGAAATCCAAATAACTGTGAGATCTGAACAAATGTATGCAATA
TAATACATATATGACTTCTAGAACTAACATCTTCAATAAGGAAGAAATGATTGCTTAAGATCTGCCCATG
TGATTGAAGCTAGAATCGTATACATTGGGAGCAGCTTCAGTCTGTAATTTTGCTAAGGAGCAGCCCGTA
AAGCACTACTGCTTCAAAGGATACAAGGGATTGAGGATGGAATGCAAAATGTCTAAGACTAAAACCTTGAAT
GGAAAGAAAAGATGAACCTCAAATTCATTGGCTTTCACAAGCAGCATCTTTTCCAAATAAGCAGCCCTCT
GGAGAGAGTGCAGGGGGCCCGGAGGAGCATGTGGGTGCTGGACTCTGCGGGTTGTGGGAGTCGATCCAG
GACACTGGAATTTTGGAGAAAGGCTTCTTTTGTCTTCTGCACATCATGCTGCAGCTCCTGCAGAAAGAAA
AGGGATGGCAAACACCTCTTCCTCCTTTCAAACCACAATTCCTACCCGCTGCTGCTCCATCAAAATCTA
GGAGAATATTTGCCCTGAAACGCTAGGCATGATCTTTTGTATTATTTATTTTAAATAGCTGAAAGGCT
GGGCTTTCTTGAAATGATGTATATCACTGGCGCTTTTCCGAAATTTGTCAGTTCAAACTAAAAGTGACC
ACTGACTAATAGAGTCGAGGCTTCTAGTGTATAGAACTGGAGACAACCTGAGTACTCATGTACTTTATA
TTTCAGTTGTCAAACAGTTTAGGTATCTGCTTTCATGCTGTTTCAAGAATCAATGCAACTCTGACCCCTG
CCTGAGACTTTCTGATATAAATGGATTACGTCAGGACCACTATAGAAATTTTATTAATCAGGCTGATTTTA
AGGCTATTCTGGAATATTGTGTACATAAAATTTGTTTTTTTATTTTAAATTATCAGCTCAGGTAGAAG
TTAATCAGATGTACAGAGCATTATCTGTTGGATTCTCACCTAATTAATTTGGTTGCCACGTTTTGATTTG
ACCTACAGTAGCAGAAGATACAAAATGCATCTGTTCACTCAGTTCAGAACTAAAGAGTATTCACTTTCTG
AGCGTTTCATTAACAAATAATAGAAAAACACCATAAGAGGAACTAAGCAAGTCTTTAATGTAGTCTGAAAT
TTACTATACCCACAGAAAAGGCTTAGCAACATGGCACCAGTCCATGATTACTGCTAAAACAAGAGATAC
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TTTTGCCCTTAGAGATGTAACTAGAGAGAAAGCACAGACTTGAACGAGGTGATATCGAGTCCCCCTGA
TCCAGCTATTGCTGCTAGACGCTACCTCTGAGCCACCACTGGTCCCTCCAGCCTTGCTATGTCCCTA
CATGGCAAGTTCACAGCACCTGTCTGACTACTCTGTCCCTGTGGTCTGTCTGGTCCCCAGGTCATGGCT
GTCCCTTACCCCTCTGTTGGGCTGACTTGGCCTTGGTTTTCCAAATGGGCTTTGTACCCACCTTTATGT
CCTGCAGGGCTGGGGCAGGATCTCTGCCAGGTTGTTTCCAGACATGCTGATGTTTGCAGCTGTGTGAA
CTTTGCTTCCCTGCTGCTTCCAGCTTGGCGAGCTTCCACATGAGCATTTGCTATAGGCTTCCAGAGCTGG
AGCAGACTCTGGGCTTCTGCAACTGGTCTGCAATGGCTTGGTTTCACTGAGTCCACCTGTCTAGTCAAC
GCAATAACATAACCTCATTCT
GTTACTAGCAGATGGATCATTAAAGAGACACTGTTAAATGGTTTTTAAATTAAGTGGCATCACCATTATA
GAAACCATATATAAAAAATAATCCAAATTAGGCTATTTACTTGACTTTATAATATGCACAAAAACTAC
AAAATGTATGATTGGCAACAAATACCTATGATGTTATGAATGTTTCACTCTCTTTTTTTAAGAGAGGGGA
GTGATGAAGGGAGCTCAAACCTTTTTTTTTTTTTTTTTTTAGAGACAGGGCCTTGATATGTTGCCAGGA
TGGTCTCAAACCTCTGCAGCTCAAGTAACTCCCAACCTCAAGCAATCCTCCTGCTCAGCTCCCAAAGT
GTTGGGATTATAGGTGTGAGCCATGGTGGCCCCGCCTATGAATGTCTCTTTGGCAAAGATGGAGAAAAC
ACTGAACCTGTATGCTGATAAAATGACTCCACATGAAGAGGCTCCCAGTTTATAGAGATATGCTATCTTT
AAACAGGTTTTAACTTTGTATTTATATCAATAAAATTTATTATCTGTTTACACAAATGTTCCCTTACATA
GAAGTGGAATAAAGGAATTTGTTTATTTCCATATACAGACTCTAGTATCTTGCTTTTCTTCCCTAC
TTTTTTTTTTTTTCTGAAACAGGGCTTGTCTGTGTTGCCAGGCTGGAGTGCAGTGGTGAATCTCAGCT
CACTGTAGCCTTGACCTCCTGGGCTTAAGTATCCTCCCATCTCAGCCCCACAAGTAGCTAGGACCACA
GGTGCATGCCACCAGCCTGGCTAATTTTTGTTTTTTTGTAGAGATGGGGTTTACCATGCTACCCAGGC
TGGTCTTGAACCTCTGGACTCAAGTATCTACCCACCTCGGCCCTCCCAAAGTGTGGGATTACAGGCATG
AGCCACTATGCTTGGCCATTTAACTTTTAAAAAATATTTCCCACTTAGTAATAAAAGAAAATAAGT
AAACCTCATTTTAAAGTGGCTGTACAAATGGTCTGTGGGTTTTTTTTTCTTTGTTTCTTATTTAATTGC
TAAATTCCTTAGTTAATTCCTGTTTAGTATGGATAGTTAAGATATTTGTAATTTTGTCTATTATGATAA
TGCTGTGATACAGTTTTTATTCAAAAGGCTTTTTTCTGTATTTCAAGATATTAGTCTTAGACTAGATTTT
TGGGAGAATTACAGAGTCAAAGAATATAAGATGTAAATATTTGTAAGGCTTTGGGAATAAATGGTCAAT
CTCCTTCTGAAAGCATTATATTACATTCTAACATGAATACATGAGAATGTTTGTCCCAATATCCT
CAACAATATCCTCGACCTGTGATTAAGAATCAAAGGTGGAAAATAGCACACTGCTTTACTTTTATGC
ATTTCAAATACTTATCAGAAGTGTCTTTTAAAAATAAGATTTTCCCTAATTATAAATACAACATATATTC
ACTGTCAAAGCAACAAAATCCCTCCAGATATTTTCTTTTTATCTATCTATCTTACCTACTTACCAA
TCCATGAGGAAGTTAAAAATGCTTGACATCTCATTATCTAGAGGTAACACTATTAGCATTTTAGTGT
TCTTCTCTTCCAGTCTTTTGTATGATGTTTTTCAACATGCCTTCCAACATATTCTTGTCGCAACAAGT
GAATGTGTACGTGCAGCTAACAACTGAGTTCCTTTACCAACAGACTGCCCTGCCATACGTTTTGACGGT
AGCCCTGATATTGTATGAGGATCAGATGCATTTGCAGGTTCCCTCTTAGTCTGTCTCCTCCCGTCTTCC
AATAAAGACTGGATCAAGAGCTAAGGGCACCAGTGCAGGGTATATAATTTGGGGTCCCTTGTTCATTACT
TGTTCCGAAGTTGATTTACAAGAGAGGCTGAACTGCATACAGGAATAATCAGGAAGGACACTTAAGATAG
CATAACTCTTCATCCCTATCTCTAATCAATTTGGTTGGAGGCCAACTTTTATATCCCACTCATCAAAATAA
AAGCCCTGCAATTAAGTGGGACACTCCTTAAAGGGAGCTTTTATATCCCACTAAGTAGTTTATCA
AAGAATTCCTTCCAAACCCACAAATGCCCTCCGCAACAGATACTTAACATCCCTTTCTTCCACCTTAT
AATGTTTCCAGTGTATTTGAACACCCCTCGAGGATGCCCATCTGGCCCACTCCTTTGTCTGTTTCTGC
CTCTGACTTTGGTGTTCGAGATCGAACTTGACATTTGGTCTATACTGTCTGTAAGTGAGTACACTGGG
GTTGTTATTAGGCCATTTCTAGACTAATTATACCAACACTTGTACAAGGGATGTCAGGCCCTCATGAC
ATAGAATCTTACATAGACTAGATTATCAAGCAGAAGAGACCAGAACAGTAGGAAACAGTCATCTCAG
AGGAGGAAGAAGCTTTACAATGCCCTATGCCCTTCACTTCTTCAAGTCATTAAAGATAAGATATCTCAT
CATTCAAATTATATCTGAAAGCATACCTTTTATGAGTATTTTGGCATTTCTCTTCTGATTTTTCAGCAAC
AGAGGGGCAGAGACCTTTGAGTTTGGCGATAACCTCCTGGAGTTTCTCCCACTCCTTCACTGCTCTCA
GCTTCATCTTGCAGAGACTAAGAGACACAACAAGAAATTAAGTTTCAAGATGGCCTGGCTACTTCCAA
AGAAGTGGCAGCTTCTCAACACTTGTCTACTATGTAGCAATAACACTCAAACTTACAGCTCTGATAAAC
TATTAGGAATGTGAAGAAACAAATGGAGAAGGCATTCTTTATTTGAGGCTGAACCTTTAAGTACTAAGTA
ATATAAGTACTTAGCACTTAGGCATCTGAAAAAAAAGGCCACTCAAAACCAAAACCTTAAATTTGT
GAAATAATATGGACATGGAATAAAGGAAGATTCAACATTTTCAACTCAAAATCAACATTTTACAAT

FIGURE 1, sheet 46 of 66

GTTTTACTGATTTGGCTCATGTGACTTATTTTGGAAATTTCCAGTTATTTCTTTTGAAACTGCTATTTAACA
 TGCTTTGTGCTTCTCTGTGGGAGGGCACAAACACAGTTATGCCCCGTACTGTGCTTCTCCCATTTGTAA
 TTTCTGCCAATAATGCACCATGCCAAGCTCTGGTTAATTTACCTGAAGTTCTCCACCTGGCATCTCAA
 GGTCTCCAATGATAACACCACAGGCTTGCTGTGTTCCATGCAGTACCAGAATCGGATTTGTCATCATATTC
 ACTTCATCATAGAGTTGATCATAAATCTTCCACTCCTGTAAACTGACTGCATGGAGGTTTGGAGTGTAT
 TGACCTAGACAAAAGTGGAAACGTACTGATTTAGAAAATCACTGAGAGACATGCTCTCCAACAGATCT
 ACCATTGTGTCCAATTTAGGCATTTCAATTTGAGAGTATTGAAGGATCACCAGTGATTAACGAAGGTGG
 AAAGGTAGTGTCAATGCATAAGAACATATCAGAGAAGGCTGTTTTATAATGAGTGAATGAAAAGAGCCC
 AAAGATCAGAAGGATCAGCACTGAAGGAGTTCAGACTAGGAAGAGACAGCCAGGGAAAGAACACTGGGT
 GAGTATTAGAATTTGTGAGTGAAGGTTTCAGTTATATTCTATTAGCTTTCTGACCTTGGGCAACTTATTG
 GACCTTAGAGTCAGTTTCTCATCCACAAAACAGAGATAAATAATTGAAAACACAAATAAAATAGTGTCTG
 TGAAAATGCTCTGACAACAGCACAACATTATAAATGTAAGATGTTACCTGGGCACTTAAGTCTGATTATTA
 CTACAGAGCAAGCACCATTGGAGAGGAACATGCTCTACCAAATGATGGGCAAGTGCAAGCAGGAGGC
 AAGCAATGGTGAATGTATTTTGTCCACTGGTATGTTCTGATAATGATGAAAAAAGTCCAAGCATTTCTGTT
 GCATATCCAAAATGATCTCAGATACAATCAAGAGTATGTAAGAAAACCTTACAAATCAATATTAAGACA
 GATAAACTAACTAAAACTGGGCAAGGAAGTGACTAAACATTTCCCCAAAGAACATATATAATGGTCAA
 TAAACATATGAAAAGACACTGAACATATACAGTCATTAGGAAACCTAAATCAAAACCACAAATGAGATAT
 TATTTACATCCACTTTGATGGCCATAATCAAAAAGTCAGATAATAATGTGTTGGTGACGATGTGGAAAA
 ACTGGAATCCTCATACATTGCTGGTGGGAATGTAAATGGTACAGTCAGTGTGGAAAACAGCTAGATAGT
 TCCTCAAAAATTAATAGAGTTGCCATATGACCTAACAAATTTGACTCTTATACACACAAGAGAAATTA
 AGCGTATGTTACATAAAACTGACACAAATGTTTATAGCAGCAGGATTCATGAGAGCCTAAAAATGGGA
 AACACCCACATGTTTATCAACTGATGGAGAGGTAACTAAATATGGTATATCCATACAATGGAATATTA
 GCCATAAAAATAAATGAAGTACTGTAATACTACACACCGATGATCTTGAAAACATTATGCTTAGTGAA
 GGAAGCCAGACCCAAAAGGCTATATAGCATATGATTCTATTATATAAAACGTCAGAAATAGGTAATCC
 ATAGAAGAGTTAGACTAGTGGCTGCCAGGGACTGGAGAAGGGGAAAAGTGGGGAGTGACTGCCAATGGGTA
 TGGAGGTTTCTTTTTGAGGTAATGAAAATGTTCTGTAATGAGATAGTGGTGATGGCTGTGTATCTCTGTT
 AATATACTAAACATCACTGAACATATACCTTAGAAGTGAAATTTATGGTATGTGAATATATCTCAATTT
 TTA AAAAGGATCTGGGTTGAAATGGAATGTGATCACTATAGTGGCTCCACAGGCCATCTTTATGGGTAGT
 GTGATGTGAGTTTGGGTACAATCACACAGCTCTGCAGCTCAGACCTGTTTTCTGTTTAATAACTACAAG
 GAATGCTGGCAGATCCACAGTGACAGGGAGGCTCCTCAATCTCTGCCCCAACAGGGCTGGATAAAAAAC
 CAAAGTGGGACGCTAAAAATGTGAGTCTCATGTTGGCAACTATGTGGACTGAATGTCTTTACAGGGCAGG
 ATGGCTAAGGAAAAGAACCAAGTTATTTAGTTAAGAAAATAAAGAAGGCGGCCAGGTGTGGTGGCTCAC
 GCCTGTAATCCCAAGCACCTTTGGGAGGCCAAGGTGGTGGATCACCTAAGGTCAAGGAGTTCAAGACAGCC
 TGGTCAACATGGTGAAACCTGTCTCTACTAATAATACAAAATTAGCCGGGAGTGGTGGCACACGCCTG
 TAATCCAGCTACTAGGGAGGCTGAGGCAGGAGAACTCTTTTGAACCTGGAAGGTGGAAGTTGCAGTGAGC
 TGAGATCATGCCACTGCCCTCCAGCCTGGGCAACAGAGCAAACTCTGTCTCCACAAAAAAGG
 AAAGAAAAAGAAAAATAAAGAAAGAAAGCAAGGAAGGAATTCCTCATCGATGTACATTTTGTGATGAAT
 GATCTCACATCTATCTGGGTGGCAGGATAATTCTGGCACAAAGTACCGCATCATCCAGAGCCCATATA
 TACATGTCAACACAGAAGTGGCATGGCTCATGTTGCACAGGCCCTTTCGACGTTCCACAGATAAAGGTG
 GTGGAACCTCTAGCACCTTAAAGGCTTCTGGCCTTATAATAAGCTTCATGGAAAAGACACAGTACATG
 AGGTTTGAGGGGAAAGGATGAGAAAATCATCAAGTAAAATTCACTATACTA AAAACAAAGCGGGAGGAAT
 TTTCAAAATGTTCCAACCTGGGGTCATCAGCAGGGCAGCATTTATTGAGCATTGTATAGGCATCAGTATTA
 AGATAGAAATAAATGACTAGGTGTTATCATCCCCATTTTATAGACCAGAAAAATCGAGGCTTAGAGAGGTT
 AAGTAACTGACCGAAGATACAGATCAAAAATGGTGCCGCCAGGATCCTTATTTAGGCAGAACTGCAAA
 GCCCTTGCTCTTAAACACTAGGTTGTATTGACTCTTGTTTACCCTGGGCTCAAGTAATCCTCCCATCTC
 GGCCTCCCGAATAGCTGGGATTACAGGTGCATGCCACCACATCCGGCTAACTTTATTACTTTTTGTGGA
 GATGGGATCTCACTCTGTGTCACAGGCTGTTCTTGAACCTCTGGCCTCAAGCGATCCTCCTACCTCAGCC
 ACCCAAAGTGCTGACATTACAGGTTTGAGCCACTGGGCCAGGCTACATTGACTCTTGACAGCTTATAGA
 TGGATGATGCTGTGCTCAGCCTCTCTGCTTTTTTTTTTTTTTTTACTTTTATGAAATATAATTCATGTAAC
 ATACGATTTCATCTATTTAAAAATGTGTAATCTCCATAATCAATTTTAGAACATTTTCATGACTCTGAAAAG
 AAAGTGCATAACTATTAGCAGTCACTCCTCGTTCTCCCCAGCCACTAATCTGCCTTCTGTCTTTATAGAA
 TTGTCATTTCTGGTTATTCCACGTAACAGAAATCAAAACAATATGTGACCTTTTGTGACTGGGCTCTTCA
 CTCACCATAATGTTTCCAAGATCATCAGTGTGTAGTATATATATATATATATGTATGTACTACTTCATTCC
 TTTTGTATGGATAGACCAGTTTCTTTATACATTATTAGTAGATGGACAGTTGGGTTGTTTACACTTT
 CTGGCTATCATGAATCATGCTATGAATATTCACGTATAAGTTTTTGGCGTGGACACGTTTTTCATTTCTCT
 TGGGCTATCTATGAGGAGTAGAAGTCTAAGTTGCATGGTAACCTTATGTTTAAACATTTGAGGAACCTG
 CCAGACTCTTTTCCAGCTCCATGGAACCCGTCAGCAGTTTGTGAGGGTTACGCTCTCCACATCCACATTA
 ACACCTGATAGTGTCTGCTTTTTTGTACAGCTATCCTAGTGGGTGGCAAGTGGTACTTCTTTGTGGTGT
 TGATTTTCATTTCCCTGATGGTTAATGACATGGAATATCTTTTCAATGCACCTTTTCGGCCATTTGTATTG
 TCTTCTTCACAGAAATGTTTATTCAGATCATTTGTCTTTTTTTTTTTTTTTTTTTTGGAGACAGGGTCTCA
 CTGTGTTGCCAGGCTGGAGTGCAGTGGCATAGTCTTGCCCTTACTGCTCCTTCCACCTCCCAGGCTCAGG
 TGATCCTCGTGCCCTCAGCCTCCTAAGTAGCTGGACTACAGGCACACACCACCACCCAGCTAATTTTTT
 CTATTTTTGGTAGAGATAGGTTTTGCCATGTTGGCCAGGCTGGTCTTAAACTGCTGAATTCAGCGATC
 TGCCACCTTGGCCTCCCAAAGTGTGGGATTACAGGCTGAGGCCACTGAGCCTGGCTTGATCCATTTT
 TTCCATTTGGTCATTTTTCTTTTATATCAAGTTGTGATAAATCTTCATATATCTAGGTGTAAGTCCC
 TTATCAAAATATATGATTTATAAATACTTTTTTTAAACAATTTGTGGTTTGCCTTTACTTTTTTGATGCTGT
 GCTTTAAACATCAAGGTGTTTAGTTTTGATGAAGTCCAATGTATCTATTTTTTTCTTTGATAGCTTACG
 ATTTTGGTGTCAATCTAGTAACCCCTGCCAATCCATGAAGTCATGAAGATTACACCTGTGTTTTCTT
 CTAAGTTTTATCTTTTAGCTCTAATACTTGTGCTTTTTTTTTTTTTTTTAAATACAAATGGGGTCTTGC
 TATGTTGCCAGGCTGGTCTGAATTCCTTGCCCTCAAATGATCTCCACCTCAGTCTCCCAAAGTGTGG
 GATTACAGGCATAAGCCACCATGTCTGGCCTGCATTTATGTCTTTGATCTATTTTAAATTTTTGTATATTG

FIGURE 1, sheet 47 of 66

TATGAATGCAGAGGTCTAACTTCATTATTTTACATGTGGATACATGGTTGTCCAGCACCATTTTTCAAG
AAAGTGTTTTTCCCTCATTAATTTGTCTGAGGATCCTTGTGAAAATCAATTGACTACAAATGTGAGGGCT
TATTTCTGGACTCTCAATTCATTCCAAGTATATATATGTCTATCCTTATGACAGTACTATCTGCATGTT
TTCACATGCATTATTTTCAATTTTCTCTTTATATTTTATATATTTGTAATTATCTGTTTACATGTG
TTTCTTCCACTAGCCTATGAGTTCTTTGAGGGTAGGATTCATTTATTTTCTGTTTACCTTTGTAACCCCT
GGCAGTGAGCAGATACCTCACACAATGTATGCTTAACAAATGACTGAATAAGCTCATCTCTATTTTCTCT
GCTACATTCTCGGGGAATGAGGACTGAGGAATGAGGCTGAGTGTGCCTATGGATTTCATGCAGGTTAT
TCCCATTCCCTCTTGGTACAAATGGTTGAAAGTAGATTTTAGTAGGTGACAACCCCAATGAAGGTTCT
CTAGGAAACATGGACATATCTATAATTGATGGTATAGATTATACCATTGATAGATTATACCAATTGATTG
GTATAATTGGTTAGTATTTTGTCTCTCTCTCTGTTGTGGGAAAATGTCAAGGTTGCAATGCTTAGAG
ATGCCTGAGCTCGCTCTCTTTTGGTGTCTCTCTCTGGAAGGGTAAAAATGCTGACATTGACATGCCTTT
TGTAAGATTATTAGATGTCTGCACCCCTTTCTCTCTTTTACTCTCTCTTCAACACCATGTAGTGTTCT
TCCAACTTTAGAGTCTCTCTGGAGCTGACATGCTCCTAGCTCATAGAGGCTACATGATACAGGATCAC
TTCTCCCTGAGGATCTCCCTGTACATGGAGACACTGCTTCATCACTGTTTCTGTATATCTTGCCAGGA
AACAAATGCCAGATACTCTGTTGGGTTTGGGGTATGGAGATATTTATGTCTGAGTGAGTACATTAGACAAA
ACAAAGATAACCAAGTGGATTTCGAGCCTGTCAATGACGTTGGAATTGGTGGCTTTGCCTCTAATTATTG
AGTGACATAAAATGGGACTTGAAATGCTTCTAATTACTTCAATTTTCTCAGCACTTTTCAGTGTTTGG
TATAGAGTCTCCATGAGTAAGGACGAAACAACCTACACGACAAATAAGGTAAAGAAATATGTGAGG
AGAAATAGCACATTTCAAATGAATTTAGTACCTGAGTGAGAACACTGCTTCTCTTTGAAATAACTCAT
CAATTCCGGATGCTGTATCTTCTAACAATGGCACTGCCCACTCTCCAAAGTCAGATAACTTTGTTTCAA
CTCATCTGCTTTGGATTAAATTGCAAGTTGATTTCCTATATCTTGAAGAGTAAGAGGAAAAGGTTT
TCAATGCACAATATTACAAAACAATTAATAAGGTGTGAGAGACAGGAGTTCACTCTTTTCAAGTAAAAAT
GTCATTAGATTATATAATTAAATAGCATTACATCAAAGAAATTTAAATCATAACTACTTAGTTCATTA
CATATGACACAACCTCTGTATTTTAGGAGAATCTAGGCAACACGCTCTGAACCATCATGGCAGAGCAGAAAG
GATGCTGGTCCGAGATCTGGTCCCATTTCCAGCTCTGCCCTGCACTGGCTGTTTGACCAGGCATAAGTCA
TCGAACCTTTTCAGTCTCCATTTTCTCATTTTGAAAAAGTGATGATACCCACAGCATGTGTGCCAAGCTAA
GAACCTCAAATAAAATCACGAGCAAGAAGGTGCCTTTAAACCATATAGCATCATATAAATGACAGACGATA
TAACCTGTTGGTAGTTTCAGTAATACTTTAATCATTTTCTACCTCTTAGTTTATTAATTCACCTCATAGAG
GCACCTGACCTGCTCTACTCTTTATAGATACATTTTAAAAACCTACAGGATCCCTCTACTACAAAGGA
CACCATGGGGCCAGCAGTCTGAAACAGAGATGAATGAGGCCAGCAGCAATGGTGCCACTCTACTCAGAG
GAAGGACGGTCGGAGCTGCTTATTTGTCCTTCTCAGGATTGCAGTTGAAATCCAACCTTGGAAAAAGTTTA
AACTTTTAAAAATTATTAAGCATTACATGCTCATTACAAAGAACTGGAAAAACACAAGAGATCTTTGG
CATTACAGAGGATTCATTTGAATTCCTCCCTCAAGTCTCCCAATTCACAAATTTGGGACGCGCTTCTGCAT
ACTTTCTTTAGCATTACATTTCCCATCCAGATGCATGTGTTCTGAATGCATGGCCTCAAGATAACGACCCCT
TAGCTCATGTTCTATTCTCTCTTGAATAATGCTTTGCATAAGGATCCAGCTTTTTTTATTTTATTTT
TTGAAATTTGCTTTGCCTAAGGATCCAGCCTTTTTTTTTTTTTTTTGAATAATGCTTTGCCTAAGGATC
CCAGCTTTTTTTTTTTGAAATTTGCTTTTGCTTAAGGATCCAGCTTTTTTTTTTTTTTTTTTTTTTAA
ATCCTTTGTAGAATCACTGCATGGTCCATAAGGAAAGAGAAACATGAGTGCCCTCGTGGGCATGGGGTAG
CTGAGCAGGTGGCTTGTACCCTGGGAGGACAAGCTCCCTTGTGCTAGCCTCACAGAGGAGCACTGAAAT
CCAGTCCCGCAAACTGCCAGATTACCACGTCAGGAGCCCTCAGGTCACTCTTGAAGGTGGAAATCACA
AACTCTAAACCAATGAATGTGAGGGTCTTCTGGACTGGAAGTAGAAAAAGGGAAAAAATCTGTCTCCA
TAAGAACTGATAGCTAGGTTTGGGAGTAAGAACGGATGATGAGAGAATGGAGCTGGAGGAATCTTCCAC
TGTATGACCTCTATGCTTTTGAATTTAGAGCCACATGAATATATAGCGTATGAACAGAAACCTCTCA
CTGTCGTAACAATCCACCATACTAACATGTGGTGAATTTATGAAATATTATCTTCTGGACTGGTTAC
AAAGCACCAGGAAACCAAGCACTTCTCTGAAATAGCCTTTGCCAATGAGATTTAGTCAGCTGCTTACC
TCTGTCCATCTCTGCCACCCTAACTCGCTCCCTCACACCCTGACAGCCTTATTTATTAGCATGTTTCTTT
TATCATAGGTTTAACTTTTTTCTATCTGCAAAGTTATAAATGAAACACTTTAATATTAAATCACTTTCCCT
TCTTTGAATTTATAAAACAGTCTCTCTAAAGGCTTGACTAACTAGATTCTAAAAACACTTATTACTA
ATAAGCTGTATAATTCCCTTAATATGTAAGAAAACTGGTAAGAAATGACTACAAAGCAGACAAAAGGA
AGTAACAACACACACACACACACACACCTTCAAAAATGGCAGCATAAACAACGCCATGCCGGGCACAG
TGGCTCACGCTGTAATCCAGCACTTTGGGAGGCCAAGGCAGGTGGATCACTTGAGCCAGGAGTTTGA
CACCAGCCTGGGAAACATGACAAAACCTGCGCTTACAAAAAATACAAAAGTTAGCTGGGTGTGGTGGC
ACACGCCCTACAGTCCAGCTACTTGAGAGGCTGAGGCGGGAGGATCCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTGAAGAGAAATCTGTCTGTGACCCATGCTGAGTAGGCATGATCTCGGCTCACTGAAAACCTC
CGCCTCCGGGATTCAAGTCATTTTCTGCTCAGTCTCCCAAGTAGCTGAGGCTACAGGCATGTGCCACC
ATGCCAGCTAATTTTGAAGCCACCGCGCCAGAGTGGGAGGATCTCTTAAGCCTAGGAGCTCAAGGCTGA
AGTGAGTTATGATTGCAACACTGCATCCAGCTGGGTGACAGAGTGAGACCTGTATCAAAAAA
AAAAAAGAAAGAAAAAAGCCATGGCAATAGCAGCACACGAACAACACACAGGTGGGGT
TGCTCGTTCTTTGCTCTGCAGATAATACGGATTAGCCAGTAGTCTGTCTATCTGACCTTGCTTCA
CTGAGGCCATAACAGTACCCTTCAAGTTTCCCAACTCCCACTTCAACGGCAATTAATTGTCTTACTTTA
ACTTCCAATTTGCTACACATAAATCAGGCTGGAATTAATAAATCTTTTGTCTAATTATGGAGATTCACT
AGAATTGCAAGTCTTATTTTCCATTCTGTGAGAACAGCATTAAATATTTTAAATATCTAAATTCC
TCTGACTTTATCACGAACATACTTCTTAAAGAGCTGTGCTTGTCTTATAGTATAGAGGCATCAAACTTGA
GGGATTAATAATCTCATCTCAAACTCCCACTCTATTCAACTATACAAATTTTCCCTTGATAATTATAATA
TGTCAACAGTGGCCTTTTCCAGTCATCAATGGCTTTTAGAAGCCCTTCGGAATATTTCAATCCTAATGT
CTTCATGCTTCATCAACTCCAGTCTTAACTTTTCTAGAGTAAAGCCACTTTAGCAAGCTTACCTGAAC
GAGCATCTGCCCCTGGGATAAGTCATTAAAGTATACATCAATCATTTTCATCATTTTCTTTCTTTT
TCTTTCTGTTTGTTTTTTTAGAGTGGGGTCTTATCCAGGATGGAGTGAGTGAGTGAGTGAGTGAGT
CTGCTTGAACCTTGAACCTGCGCTCAAGTGATCCTCTGCTCAGCTCCCGAGTAGCTAGGATTACAGG
TGTGCAACACTATGCCAGATAACTTTTTTTTTTTTGGTAGAGACTGGGTCTTATGTTGCCCTGGCTGGT
TTTGAACCTCTGGCTCAAGTGATCCTTCTGCTTAGCCTCCCAATTTCTGGGATTACAGGTGTGAGCA

FIGURE 1, sheet 48 of 66

ACTGCACCTGGCCTCATTTTAGTTCTTGTATGCAAAGAATAGTGGAAAAAAGAGAAAT
 AACATTTATAGAAAAGCAGCCTTTTAGGTCTATTAAATAGATATATTCAGGCAACTATTAGCACCTATGA
 ATTTACAGGCAGTGACAGGTATAACAGGCATGCTGATGTGCCAGCCTGCCTTGAGAATCCACAATCTG
 GTAGACGACAGACCCGTGGACAGATGAGCCAGTACAGTCTCTGACACATGATGCTACATGGGGTCTAG
 GGAAGCCTGTTTTATTGCTTCCATCTTGGCCTTGTATGGCCTTTTACAAAGAGGCATCCAAGC
 AGCAGCATAAAAATTAATAAGGAAGAAATGAGCTAATGGAAATGTGGGAGTAGGTAGGAAGGCACAGT
 CAGTGGGCACGTGGTGGGGAGGGGTCAGGGTGTCTTGATTGAGTTCTGACAAACATAGAGGAGAACCT
 GTGTGTGGATGGTGGGGGCGAGGGGAGGGAAGTAGAAATAATTCTGCAATCAGCTGCAAAATGTAATGGCA
 CAGAGGCAAAATGGGACTGACGAGGGATGATGCCGGCCAGGCATGTCTGTAATTTCTTTAAAGCCCCT
 TGTCTCAGTCAACACTAGTCATTTTTCTAATGAGCAGAGCAAAATGTGAGAAATGGTTTCTATTGGTAAA
 ATTAATGGATTATTATTGTTATTAGAGATGGGGTCTTGCTTTGTCAACCAGGCTGAACCTACAGTGGCATG
 ATCATAGTTTACTGTCACCTTGAATTCCTGGGCTCAAAGGATATTTCTCCCTTAGCCTCTTGAGTAGCTG
 GGACTACAGGCATGCACCACCATGCCCGCTAATTTTTAAATAGTTTTTGTAGAGACGGGTCTCACC
 TCTTGTCTCAGGCTGGTCTCGAGCTCCTGGACTCAAGCAATTTCTCCACCTCAGCCTCCCAAGTGTCTGGG
 ATTATACACATGAGCCACTGCGCCCGCCTTAATGGCTTATTAAATAACATAATGAGTATTAGAAATGGG
 TTCTCACTAGTAAATTTTCATGTACTCAAGATCCATGGATTGGCTAAACTACCGTAGATATAATTTCCACC
 CCTACTTGAACGGCTATAAGAACTGGGCATAGCCTGTTGCCCTCACTAGTGCATAATCCCTAAGGTAA
 GTCTCTATGTGGTTTTGTATCCAGTTTAACTCCAAGGATTTCTGGTTGCCTAATGTTGGCCATAGAAAT
 AATGGAATCTTGCTTCTGGAATATTACTATGTCTGCCTTTCATGCAAAAGCGGTGGTTGGTGTCTAAAGA
 GGGCAGAGAGGCTTTGCTGAACCTTAGTTATATAAATATTTTTAGTGCTTGCTGCTAATCTATGTTTCT
 ACAGATGGTGGCATTTGTCTGGAATTTATTTATTACAGCTTGGTAGTGAGTTGTGGGAAGATAGC
 TAAACTTAATCCATTTTCAGCCTTGTTCCTGGCTACCATTTATCTATCAAAAAGAGAAACAACTGTGTAAG
 ACTCACTTGACTTAGGTCTATTTGCAACTCTTTGTAGGTGAGGGACAGAAATGTCATTCTAAACATGTG
 AACTTCATTTCTGGTCCATCTGGAGCCACTGGAGGATTTCCAGTGGAGAGTGTGTGACCCCTTTGCAT
 TTCAGAAATATCCCTCTGCGCAATGTGGAGAATGAATCAGAAGGAAATGAGGGAGGAGGCTGGCAAGTG
 GGCTGGAAGCAGCTGCATGAGACAGGCTGCACTGAGGGTGGTCTGAAGGAAGCCGGCTGACCGAGACA
 GACTGGCCAGACAGTAAGAGTAAGTCAAGAGCACCTAATGAGAACTGTATGTAGCGACACGCATGAAA
 ACACCTCCTGGGCTCTGGAAAGAACACCTACTAGGGGACAGGCCAGCACAGGCTGCGGAATGTAGGCT
 TCCAGTAAGGAAGCACATGACTCCAAGGTGGCTGTGAGAAGGCTAAAGTGGAGATGGCTCATTTGGAGGT
 GGGAACAGTATACGAGCAGGTGAAAAGGGCCGCTTACGGTGGTGTCTGCTGCTCACATTTATGTCCAGTGC
 TATCCCGTGACCTCCTCAGTAGAAATGGGGTCCGGCCAGACTTTCCAGTCTGACAGTGACTATTGTAAG
 GCCGTACGCGAGGAAGTGCAGAAACAGCACAGCGTGTGCCGCTGCCGTGATGGCGATGGCAGAGGTCCT
 CTGAATGGGCAGCAGCCACAAGGGCAGTGTCTAAAGCAGGATCAGTGTGCAAAAGACTGAGTGATGCGGCAA
 AGCATAGCTGAACACGGACAACACCCCTCAAGCCCAATGTGATTGAGCAGAGGTTCCAAGGGACAAGTG
 AACTTTTTAAAGCATAATACACAAATAGGTAGAAGAAATCATTTTCCTCGAAAAACACAGAAATGAAATG
 CTAATAAATGAACCTTTAGAGTAATTTTGAACATTAGGCAAAATGATTAAACAAATGGAAATTTGG
 AAAGCATTTAAATCAAAATTCCTTTGAACATTTTCCCCAAGAGTACTACTCAAACTCTTAAGAGCAG
 CAATACTGTAAACGGTGAAAGTACATTTCTGTTTTATCAAAAAACCGCACCTTTGCAATTTTGTAAAC
 CCATGGGTCAATTATCTAATTGACATAAGAAATAAGTAAATAGAGGGGAGCTGGAAGAGAGTTTCCACAA
 ACTACAGCAACTTATCTCGGGCAAGAGAGGTGACCGAATCACCCAGCTCGCGGGTGGGTGGGATGC
 TGTTCCTCCTCCTGACAGTCCAGGAGCAGCTTCTGCACTGAGATCACACTTTCAGGTTTTTGTAA
 GTTTTCAGTCTCTCTTCTTGCTTCCAGCCAGTTGTTCAAGATCTGTATTTTATTTTCACTCTCAGTGA
 TACTTTCTAGAAGTTGTTCTAATGTTGTATCTAAGTGAATGTAAGATACAAAAATGTTAAATGTA
 TGTTTTTAAAGGTAATGCCATTGACGTTATTTTTTAAAAACAATTTTGCTTCTTTCAAATTTCTAATA
 TTTCTATGTAATAAGATGCTCTGATAACTTTTGAATAAAGATTCAAAAAACAGAAACAGAGTTAAAGCTC
 CTCTTAGGAAAAAATATCATATTAAGGTGAAAGTAATCTGCTGAGAAAGGTAGCTGTTGAGGTTT
 CAGATGTATACAAAAATAAATGTTCCCAACATTCGATATTTTTTCATTGTGTCTATTAATATATGTA
 AAGTATAAGACAAATTTCTTCTCAGACTTTCTGCAATTAGAGTTGCTTAAATTTCTACCAATATCAT
 AAAAAATAATTTATCAATTCATAAATAATCATTTGCTTTAATGTCTGTGATTCTCATTCATAATAAT
 TTTTTATTAGGTCAATATATAATATACACACATTTTATATTCTTTTTACATACATTATAACTACTGT
 GTCATGACATAATTTTTTTTTTTTTTTTGTAGACGGAGTCTCGCTCTGTCAACCCAGGCTGGAGTGCAA
 TGGTGCAATCTCGGCTCACTGCAACCTCCACCTCCCGGTTCAAGCAATCCTCTGCCTCAGCCTCCCTA
 GTAGCAGGGATTACAGGCAGTGCAGCATGCCAGCTAATTTCTGTATTTTGTAGAGTCAAGAAACA
 CCTGACCTTGTGATCTGCCGCTCGGCTCCCAAAGTGTGGGATTACAGGCATAAGCCACACGCCCA
 GCCTGTCATGACATAATTTAAAGGCTGCCCGCCAGGCGTGGTGGCTCTTACCTGTAATCCCAGCATT
 TTGGGAGGCAGAGGTGGGTGTATCACTGGAGGTGAGGAGTTCAGACCATCCTGACCAACATGGTGAAC
 CCTGACTCTACTAAAAATACAAAAATTAGCTAGGCGTGGCGGCAGGCATGTGTAATATCAGCTATTTGGG
 AGGCTGAGGCAGGAGAAATGTCATGAATCTGGGAGGTGGAAGTTGCAGTGAGCCGAGATCGCGCCACTGCA
 CTCAGCCTGGGGAACAGGGCGAGACTCTGTCTCAAAAAAAGAGCTGCCCAATGTTT
 CATCAAAATTAATACAGTATAATTGATGAACATTTCCCTAGAGTGAGAAATTAAGGCATGGTACATTTT
 ACAGCTGTAAACGATGCTGAATTGAACACTCTGTGCACATCATTTACTTTTTGAAGGACTATCTACTTA
 AATGTGTAAGAGGTGACTTGCTTGGTTAAGTGATAAGATTATTATACGGTTCTTTACATTTTCCAAATG
 CTTTCCAAGAAAGTACTTAAGCCATTATCAGCAATGTATGAACGTGACAGCTTTGGGTTTTGTCTTAT
 CTGATTAATTTTTTTCTAATTAAGTGCAATTTGTTACACAGTGTATTTTGAAGTATCTGCTAATGATA
 TCTTTCCATGTTTATTGCTAACTATAATTTCTCTTTTGTGAATTGTCTGTTTCTGTTCTTTGTCCATT
 CATGTACTTTGATCTTAATGTGTAATCCATTGTGATGCAATCTCTACACAGTAAACACACCAATTTATC
 ATCATGATTATATGTAAGTATTTTTTCAGGAATAAGTTTTCCGAATCTTTCAAGAGTCATGGAGTGAA
 AAATCTACCAAAAGCCAAAGTGCAATTTTCTTTTATAACCTTTTCAAGCTGAAATAGCTTTGCC
 CCTTTGAACATCTGCTTTTCATAGAAATGTAAATCTCTGATCATTTAGGAGTCTGACATAATACTTGA
 CATGTTCTTAATAAATTCCTCATCTTCACTTGCCTAGCTCAATTTCCCACTAAGAAATCTCAATATA
 AGAATATTTTTATATTCTTTATAGGTACCAATGGAGAATGCTAAAACATAGGATTTATAAAGGGCTA

FIGURE 1, sheet 49 of 66

TAGTTGAGATGATTATTAGGCTTAATAATCAGTCAACTAATTGAACGCTTTTTTTGATTTTTTCAGAAAGT
 GTGTTTCATAAAGGTCAAACACACATCCAGTTGTGACGCAGGAACACACCTTTCTATTCCAGCATTTCCAT
 GTACACGGTGGCCACTGGCGGTTTCATCTCCCCCAGGTGCTCTGCAAACTCCGTTCTTTTCATAGCGCTTGCT
 TTCTACATCACAGGTGCTTAGCTGAAGTAATGACTGGTTAACGAAGTCAACTATCCACTGTTTATAGTCC
 ATTTCCATTCTAAACTCCTAAATAAGCAAAGTTAAACACCAAAGCAGTCATGAATGTTGGTCAGATCAA
 ATGGATTTCCCTTTATGTGCTCGAGGGGGCAACAGCTCCCGTCCATTAAATCAAGGGGCACCTGTGAGGA
 GTTCTGTTCTACCTCCCCAACCTACACCAGGAGTTGGCTTTATTGGAGTAGGGATTCTTTTGGGAATT
 ACACAGAGATGCACTGCTTTCAAATAGGCTGAAAAGTCAAAGGGGCACCTATGTATGGCAGTTGCTATCAT
 CTGAACCCCTGACCACGACCCAGGATATGACAAAGCTTCCCTGGGGGAGGCTGCCTGTGCTGCTGGA
 TTCTGGGCCATCCTGAGGGCTCACGGAACACACAGATGGGAAATAGGAAGTAAAGTCTCTTTTCAGAAAA
 CCCAGGACACCTTAAGGAACTCTGTCAATTTAGGCAGCTTCCCTGTTCCCTCGGGGATAGTTAAGGCCTCT
 CAGGTGGCTTTAGAAAGTTTGGGTGGCTTTAAGTTGTACAGCAATCCTAAACCCACCCAGGGCCAAACAAC
 ATTTCTGCCAAACCTGTCACTTACTGATTTTATCTCTGCAAGTTCTAGCACCTCTTTTGGAGACACCCGG
 GGGTGACAGTCAATGTTGTTATGTGCTAGGCTGTGAGAAATACACGTGTAGACTTTTTCAGAA
 GATTTTACTACACACTGAAGTTAGGATGTGATGGTACATAAAAAACAAATTTCTGCTAATATCTTGCTT
 GGTGATTAAAGCCATTATCTTCTGCTTACCAGAAGCTAGTTCATCAGCCTGCATGGTCTTAAAGCAATG
 ACCCACTTGTCACTCATCTTTGATTCCCAAGTGGCCAGCATAGTGTGAGCACACAATACACGTTTGCA
 TGTGGCTCATGAATGTTAATTAATCTACTTGAATTAATATACAGAGAAGGCCACATTATATCTTA
 TTTGTAGAAGGATCTCAATATTTTCTTACTCATTCTCTTACTCAAAGAACATTTCATTAACACCTGTTAG
 AGGAAGGCAGGTATTGGGATAGGCGTCTATATTTTAGCAAGGTGAAGGATGGCCCCCTGGTCTCGAGAA
 CTCAGTCAAGGTGGGAGACAGGCAATAAACCAATAATATAATAATGCATGATAGGAGCTACTAATAG
 CATCTGGAGACATCTAATCCAGGAAAGTCACCTAGTCTGGCTGGGAGAGTCAGGGGTGGATTTCGAAAC
 AAGGACAACCTCGAGCTGACTATGGAAGATGACTAAGAGGACGTATACAGTTAAACGTGGGCCCTGGCATT
 CCAGGTAGAGGGTGCAGCATGTACACAGGATGATAGGGAGAGCACCAGAACAGTTAAGGAATCAAAAT
 CACTCTGTGAGGAGTCTGTGTTTATGGGGTGGTGGGATGGGATAAAAAGGTGAGACCACAGTCT
 GTTAAAGCTTTGCTTGGATTGTCTGTGGTGTGGGGCTGGCAAAAGGAATTTAAGTGGAAACAAAGCA
 AGTCTACTAATCTCTCCAGAAATCATCCACCACCCAGTTCTTACCCTTAGAATTAGTTTGTGAAAT
 TATATCTCTATGTGTCCTTTGTCCAGCATTACCCCTCTGATAGCCTCTTGTGTTCAATGAAAAGACTTC
 TGCTCCTTTTGCATAAATACCTTGTGCTTCTGAGAAGATGTTTAACTTGAGATGAGAACTTGGTGAAT
 GCACGGAGTCTTCATCTGAAGTTGATGCTCCACATTGTTTATCCAGCTAATCATTTCTGTGATTGCTTT
 ACGAGACGGCAATTTCTCCATTTGAAGCTGTAAGAACAAATGATTTCCATTTAATTGCCTGCAGTTAAC
 AAAATGAATCAGAGCATCACTAAAGATGATATCTGGTTTGATAAAAAGTCTTGCTATATAAATATGCAGG
 TTACTCAAAAAAACAACACCCAGCATTCAAACCTAGAATAAGCGACCCCAAAACATGACAATGACCT
 TCACATAAACTAACACAGTGGCAAGATAAACTGAGAAATAAAGTAATTAAGCCTGATTTCTCTCTTAAG
 AAAATCCCATTGGAGGAGGGTCCAGTAATTAAGACTTATATTAGTGGTGCCAGAGAAAAATAGGTAGT
 GTCATGAAAATATTGAGTCAGAGAAATAATTTTAAAGAGTTATGAGCTAACAAGTGAATGCTAATTC
 AAATGCTTGAAGCTTAAAGACTTACCTGGTGAAGTTTCTTGAATATCTGGAAGTTGAGTTATGAGCAT
 TGTCCATTTTGTCAAACCTGTGCTAAAGAAGCTCTCAGTGTAGCTGTATCAGTTTCTTTCAGGTGAAGA
 AGCTGGTTCCCGATCTGATAAAGGCGAGTCTTCAAGGAGGATTTTTCATCAACTCTCTTTGAAAACCTCT
 AAAGGAGAGTTTAAAAATTTAGAACTTAAATTTAAATATAGCAGAAAGTAAGAGTCGGAATAACTGGC
 TAGAGTCAACAAATAAACATAGTTAAATATACGAATGTGTATACACACACACACACACCCCTTTTCTCT
 ACTGTTGGGCATTACATACAGATGGGGAACAAAGAGATGGAATGCATACCCCTCAAGAAGCTTATCAC
 CCAGTGGGTAAACATTTTAAAAATAAGTCATTATTTAAATGGGGTAAGTTTACAATAAACTATGGAAC
 CCAACACAAAGTGCACATTAATGAATTACTTGCAACAAGTTTGAATTAATAATGTTTAAATCTTTCCCTA
 TGTAGAAATTTCTTCAAGTATGTTGAAAAAATTTACATTTTAAATAGCAAGTTAGTAATCATAGCTACGA
 AGTATGAAAAATAAAAAAACAAGGAAAGCTAACAGAAAAGACTACGTTTCATAAATGCATTGACCA
 ATAATCATTTTGTATATTATTAACAAGATATACATTTTATTTCCCCCAAAATTTGGGGGATATTTT
 GAATTTTTTCCAAAAACACCTCAAACCAATGGAACAAAGCTTTTGTAGTAAATATCAATTTTGTGTT
 ACAATTAATTTAAACATATGCATTTATTAATGTTAAACATTTATAAGTTAATAACCTTATAAAGTTGTTT
 GGGTCTTGATTTTGTATTTGTATTTGTAACCATGACCTATGTGAGTCAAGTTTTTGGAGACTGAGTTTCAC
 TCTTGATGCCAGGCTGGAGTGAATGGCGCCATCTCAGCTCATGCAACCTCCACCACCGCGGTTCAA
 GTGATTTCTCTGAGCTCAGCCTCCGAGGAGCTGGGATTACAGGCATGCACCACCATGCTCGGCTAATCT
 GTATTTTGTAGAGACAGGTTTCTCCATGTTTGTGAGCTGTTATCGAAATCCCGATCTCAGCTGATC
 CACTGCTCAGCCTCCCAAGTGTGAGGATTACAGGCGTGAAGCACTGCACCTGGGCGAAGTTTAAAT
 CAGATATATTTTATGGGGTCAATTAACCAATATTTTATATAAACGAATGAACAGTATAAACAGTTCTA
 GGTGATTTGCTGAGGTGAGAGAGAGGAGGATTAAGAAACATATTTCTGATAATGATATGCATCACCAGCAAT
 TTTCTTATTTTATGATGTCTCTATGTTGATCAGTCTTAACATTGAGATATCATGACGTTAATAAG
 GATTATATCATGTTTATACCATGATGCTCTGGCATTTTCTAGGACTCTCTTCATTACAGCTCAGCAAG
 AACAGTGAGGATTTTAGGCCAGATGTGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGCGCAAAAA
 GGTGGATTTGCTGAGGTGAGAGTTTCAGAGACAGCCTGAAAAACATGGTAAACCCCTGTCTCTACTAAAA
 AATACAGAAAATACCCAGGCATGGTGGCAGGCGCTGTAGTCCAGCTACTCAGGAGGCTGAGGCAGGAG
 AATCGCCTGAACCAAGAGGTGGAGGTGCACTGAGCCGAGATTGCGCCACTGTACTCCAGCCTGGGCGCA
 CAGAGCAAGACTCTGTCTCAAATAAAAAAATAAATAATAATGAGGAAGTCTAAAGCATTCTTTA
 TTTCTTATTACAGTACACAAAGTATACCAATGAAGGAACAGAGATTTTATCCATCAAATGCTCTCT
 ATAAATTTGTTTATATTAATAATAGGTGAGGCACAGTGGCTCACTTCTGTAATCCAGCACTTTGGGG
 TAACAGGTGGGAGGATGGCTTGAAGCCAGGAATTTGAGACCAGCTGGGCAACATGAAAAACCCCAT
 TCTACAAAAAATACAAAAATAGCAGGGCGTGGTGGCATGTGCTGTGTTCCAGGTACTTGGGAGGCTGA

FIGURE 1, sheet 50 of 66

GGTGGGAAGATTACTTGAAGCCAGGAGGTCAAGGCTGAGTGGCCACGATCAGCCACTGCACTCCAGC
CTGGGTGACACAGTGAGACCCTGTCTCAAAAAATAAATAAAATTACATACACACACACACACACAC
ACACACACACACCATACATACACACACACACACACACACACACCAACCAGCATTTGTATAGCTGTATA
ACAACAACACTGCTGCTGGCTGAACACCCCAACGTATTTGCCCGAGGTAGTGAAAATATTCAAACAATATTC
TGCCCTTCTTGTAACTTTTAACTGCCTTAGATTAAAGATGCAGGGATGAGAAATGATGTTTAAATGTTCTA
TGTTCTCCTCCTTCTTCTCACCGGTTCAAGATTATACCAACTAAGCACACAACAAATTCTCCAAGAACTCAA
AAGCCTATTTCAAACATTTCTGTTAGCTAAAATCATTTAATTTTTTTAATTTTAAAACCTTTGGAAAGAG
CAATATCATGGTATAAAGGTAACTTATATATTTTATAACATAAATTCCTAGCTTCTATAGAAATGTGT
AACTAGCTGGGTGCAGTGGCTTACACCTGTAATCCAGCACTTTGGGAAGCTGAGGCAGGAGGACTGCT
TGAGGCTAGGAGCTTGAGACCACCTGGGCAACAATGTGAGACCCCATCTCTACAAAAAATTTTATAAAAA
TTAGCCATGCACGGTGGCCTATGCCTGTAGTCACACCAACTTTGGGAGGCTGAGGCAGGAGGATCGCTTGA
GTCAGGAGGTTCAAGGTTGAGTGTAGCTATGATAGTGCTGCTGCACTCCATGCACTCCAGCTGGGTGAC
AGTGCAAGACCTTGCCCTCTTAAAAACAAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAA
AACTGATTACATGTTTACTGTGTCTAGCAAAACCATCAGAGATTCTACATCGCGTTTAGCCCGAAGAG
GGACCAACTGCTTTAGACTGCCCAAGAAAAACAGCATAAGGTGGGTGCAGGTAAAATTTAGTTGACT
ACAGAATCCCCAGGCTTTTCTTACAGCACAATATGAAGCCAATCCACCCCAAAAAGGCTGACCTGAG
CAGATGCTTGAGAAGAGCTTGAGCCTGTGGAGCTCATGGTCAATTTTCTTGTTCAGGGACAACCACTGC
TCTTCCAGTTTTCGATCTGGCCCTCTAATTCAGGACAGCTCACAGACGCCACCAACTGTTTGCCTTCGT
TCAGAGTTTGGTAAAGCCGGGCGTGTTCACCAATGTTTCTTTTATTTGCTAATAAAAAGTAAAGTC
ATAGAATGAATTTATTTAGAAAATAAAGTCTGCCAAGCTATTCACAAATCTGCATTTAAACTGACATTT
GTGTCCTGATATAAACAGTAACACTTTCCCAACATTCAAGACTATATAGTCTGACTGGATGCATGATTA
ATGGTTTATTTGGTTACCTTTTATGATAGGTGCTCCAACTTCTGCATTTCTAGAGCACAGATTCAACTTTGTA
GACTTACTGGCTGGATGCAGTGGCTCATACCTGTAATCCAGCACTTTGGGAGGCTGAGGCAGGAGATC
ACCTGAGGCTGCAGTTCGAGACAGGCTGACCAACATGGTGAACCTCCTCTCTACTAAAAATACAAAA
AATTAGCTAGGTGGTGGCGGCTGCTGTAAATCCAGCTACTTTGGGAGGCTGAGGCAGGAGCTTGTGGC
GCACACCTGTAATCCAGCTAGCCAGGAGGCTGAGGCAGGAGAAATGCTGGAACCCAGGAGGTAGAGGCT
GCAGTGCAGTGCAGTTTGCCACTGCACTCCAGCTGAGCGACAGAGCGAGACTGTGTCAAAACAAAACA
AAACAAAACAAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA
TGGCAGTGCATTAGGCTGCTGAGCTGCAGATAGGTTTGTGTGACCTTAAGATCAGTTTGAAAATCA
GGAAATCTTACCTAATAATCAGGATTGCCAGTGTCTGTGGGAAAACCTGGAAGACCTAGCAATTTGTTGGT
TGATCTCATGTGGCAAGGGCGGCTGTAATGAGCAGCAGCTGCTGGCTCTAGGAGAGCCTACTCCCTC
TCCTTTTCCCTTGGCTCAGTCCCCACCACCCCTCTGATTGCAGAGCCAGTAGGGTTTCCTTATTTCTATT
CTGCCCCGGAAGACACTTCAGATGGTGACTTAGATATGAAGAGGATAAATAAAATAGTATTCTCTCTATTA
TCCATGAGATGCCAATACTAGGCAGAAAAATTCATTTCCAGGCTCTTCTACTGAATATAAGATTTCAGTA
GAGAGAAAGGAAGAAAACCTTTAGAAAATAAATTAACAGCGTATCATTAATCCAACCTTCACGGAAGA
AAAATGAAATCTTTGAAGAGAAGTCTGTCTAAAGGTAATTATCTAACACAGCTGGATTTCAGCTAATGCC
ATTTATCCTGACACCTGTTTAACTGTTTAAAAATAAATTAACAAAACAGAGGTTTGTCTATTTTCAAA
TTAAGTTAAGCCTTTTAAATCATTACCAAAAAATTCACGCTCCATAGCCCTTTCCACCCTCCCATTTGT
AATCCCCCTCCCCCGTGTCTGAGCATCTGTATTAAGAGAAAAAATCAGTCTAATTTTCTAAGTGAA
GTGCTAGATTCTTCACTTTAAACATCTCTGAAAAGTCTTAATTCACCCCAATTTTTTTTTTTTTTTT
TTTTTTTTTGGATGAAGTCTGCTCTGTCACCCAGGCTGGAGTACAGTGGGCTATCTCAGCTCAGTGC
AGCCTCCGACTCCCGGTTCCAGCGATTCTCCTGCCTAAGTCTCCCAAGTAGCTGGGATTATAGGCACGT
GCCACCACACCCAGCTAATTTTGTATTTTAGTAGAGATGGGGTTTTACCATATTGGCTAGGCTGGTCT
CAAACCTCTGACCTCAGGTTATCCACCCACCTCGGCCTCCTAAGGTGCTAGGATTACAGGCATGAGCCAC
CAGCCCGAGCTTAATTCACCCAGCTGATGCATGGGATACAGTCTGTGCACAGTAACCTAGGCTGAGCCAG
CATTTGAACACAGGTTTGTGACTTCAAAGGCCAGACAACCTGACTCCTAGGTTCCATGCCCCACAGACGA
CGGCTGATCAAGATGACAACATCTGTGAGCTCACACAAACCTTTCCTTGATTCTGAACTGAGAATGGCC
TATGAAGTCCATATGTGAGATGGGCTTTACAGGATATGTCTTCTTAGTCTGGCAAAATTTATTTAAAGT
CTTAGAACAAATTTTCTTTTAAATTTTAAATGTAATAGAATCACACATTTTAAACAGATATGGTCAC
TTTTGGAGAAAACATCACACTCATATTAGGTTGGCTAATATTAGACTGTTGCTTAAATAATAAGCCTT
AAAATACTGTTCTCATCTGCATTTCTTACGTGTTTAGATGATACCTTCTGTATCCCTAGACTAACAAAG
AGCTAAACAGTACTCTCATACCCCCACTCCACCCACCCAGAGGACTCAGATTTACCTTAGAGTTAGG
CTCAATATAAATTAAGGCGCAATGAGACCAACTGTAGCTTTCCAGGCATCTAGGAGATATAATACA
GTGTCACGCTCTGGAATGTTTCTTATAGAGTTAAATACCTCCATGGAAGAGAACCTTGAAT
TATTTCTGCTTTTCAATTTTCCAACTAGTTTCTTACGGCAATAAATGTGCTTTTGAGGTTTTAAAGTTGAT
ATTTATACACTGCTCTAGCCGACAACTCAGATTCTGACGGCATATATCTTAAAGTTAAACTAGGAAT
TTTAAAGTTCTGGTGAGAAGACTTAAACTTGTTTTATCTTGTGGTCATGTTCTCAATGTCACCTGAA
AATATTTTGAGTTTTATCTTTTCTTTCGCACCAAAATTAGAGACACAGAGACAGATGATAACAACGCA
AAAAGTTACACAAAAAGTTTAAAGTTTGAGGGTTTTGTTTTTTTGTTTTGAGATGGAGTCTCGCTCT
GTCACCCAGGCTGGAGCGCAATGGCATGATCTTGGCTCACTGCAACCTCCACCTCCAGGTTTAAAGCAAT
TCTCTGCTCAGCCTCCCAAGTAACGGGATTACAGGCACATGCCGCCATGCCAGCTAATTTTTTTTTT
TTTTTTTTGATTTTAGTAGAGACAGGTTTACCATTTTGCCAGGCTGGTCTCAAACCTCCTGAGCCAG
GCAATCCACCTGCCTTGGCCTCCCAAGTGCTAGGATTACAGGTGTGAGCCATCGTGTCCGGCTGAGAT
GTTTTTATAAGCTGGTGACAGGTAAGATTATGTCTGTCTTATGGGCTACGCTAGTCAGGACTCACT
GTAGGAATAAAACGAAATATATGTTTAGAGGCCGAGGCTGACAAAGTTCTTTCCATTCTTCAGTCTATT
TCCATACCTAGTAGCTCACTGGCATCACTTCCAGAGACAGGTAGAAATGGCTCGATTATCTGCATTCCAC
AGATAAAGAAATTGAGGCTTAGGGACAGCAAGGTACAGAAAGTATAAGTATGAGGACGAGCTCAAGC
AAGTCTCTCCCAAGCCAGACATGTGGTTATGCTAAGGAGTTACATTTCAAATCTGTAGTCTCCCTG
AATACATTCACAGTGAGTTGTATGATGAACATTTTGTTCATTTCAAACCTTCCAAATCAAGCCACTTA
GTCAAAACAAATGTAACACAAAGTCTATGGACACGCTTTTGATAACTTAATGGAAGACAAATACCT
GGTAAATGAAATCCTTTCCACTAATCTTCTCTGTTTCTCCACCAACTCACAGAGGCAATGTAGA

FIGURE 1, sheet 51 of 66

TATAAGAATTTCCAGGTCCTTTTCAAGAGATGCATAGTTTTCATCAAATTCCTCCCATTTCTAGAGAATC
AAGGACATAAAATTAGTGAAGCCCTTTACCAGATTGGTTCCAGATAACACATAATTAATCACAAAACA
AAAATGAACACCAAGACCATACAAAATTAAAGCACAGATTCCAGGTGTGTTCGAGAGACGTAACCCACC
CTGGTAAGCGCTCAGCATCTAATGGAAGAATTCATCACCTTTGAGGACAAGGTTTAAAAAGAACTG
AGTTGGCATTTTATGCTTTTATGCTTTGCTTGGTCAAACTGGGTAACATGACTAAAGGAGTAATACAATGAA
GTTAAAAATGATACTCTTAGCAACTCCGTAGAGACCTTGGAGCCACAGAGAGCCTTTCTCTTATTAGGAA
AGGGAAAGAGCTAACTTTTAGACCTTACTCAACAGAAGCTATTAGGCTGCTCCTGCTCTCCAAGCCAC
GCCCCAGCCACCAACCCCATGCCACTTGCAGCATAGGTCTGCTCAAGGTGCTTTGAGGAGTATAGG
CTTACACTTCATCAGGGGAGGACAACCTGCCTTAGCCCTAGCTTGTCTATCTTTTAGCTTGCCCCGTTTCC
ATGGATGCCACCCGAGGACCCCAACACACCACAGAGCTGAGTTATTGACTCCAACATTGCTGTTAG
GAAAAGAACCACCTCCTCTTTTCCATATCTATTACATAGTGGCTCACTTGGCTTTTATAGAACACTCA
CTGGGTCCATGGAGTCTTTTTTAAAAAATACCATGACATATTATAAATCAACTTGACACACTAATAG
AAAAATAAATTTTGTGCAAAAAAATAACACCATAATTACACTATCAAGTTAAACATTTTCTTCTTTTT
TCTTTTTTTTTTTGAGACAGAGTCTCGCTCTGTCGCCAGGCTGGAGTGCAGTGGTGAATCTAGGCTCA
CTGCAAGGTCTGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGC
GCCCCACCACCGCCAGCTAATTTTTTTTTGTATTTTAGTAGAGACGGGGTTTCACTGTGTTAGCCA
GGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCCCTCCGCTCCCAAAGTGTGGGATTACAGGCGT
GAGCCACTGCGCCCGCCCTCCTTCTTATTTTCCCTTAAAGTACTAACATTGGCTATGAAAGGTGGA
GGGGAATGCCTCAAACCTGAGAAGGAGCTTTATGCATGCTTATTTTTTCTTTGAGTTTAGACAAGATTG
TCATCCATTTTAGGACATCTGGGCTGTCTCTTGAAGAAGTACAGTTTTTAAACCAATAACTGTTTCAC
CCAAATGATCTCATTCAGGTCTCAAAGTGCTTATCGTTTGTCTTATCATACATGAACCTAAAGGCAG
AGAGACGAGTACCATCCCAATCTATGTATGAGAAATCCAGCCAACCTTTTCTTCCAGGAGCGGCTC
AGAACCTGAGCAGGGGTCCACATTCCTCACTGTGAGGCTCCATTTAACTATAGCTTAATGATAACTAGA
TACTTCTTCTCAACACCTGGGGTGGTGTGGAATCAGCAATTCAGCTTCACTAGTACAACGTTTACATA
ACCCAAATACCTGCAACAACTCTGAGCTTCAACCATTCATACCATTTGGCGTGACTTTTCTTCTAGTATTTAAC
TTCTGTTACTTGTCTGCCCAAAATGTCTCTGTTTGAATAAAGAAGGAAGTATTTTGGCAGAGTAT
GCTTGGATCAACAACATGTGAGCAACAAGCTTCTGGAATAAAGGAGTATTTTGAAGTATTTTGAAGTAT
TTACTTTGAAATTTGTAAGTCTTAAAAACCAAGTACTTCACTTTATATCCAGTTATTTTGTGTTA
AATCCAAATCCAGGACATCCGTGTAGAGTCAAATTGACAGCCTGGCCCAAGATGGCAATACAAAGT
AGCTAGGCATGGTGGTGAATGCCCGTAATCCAGTCATTTGAGAGACTGAGGCAGGAGATCATTTGAAC
CCGGGAGGCGGAGGTTGCAGTGAGCCGAGATTGTGCCACTGGACTCCAGCCTAGGTGACAGAGCAAGACT
CCCTCTCAAAAGGAAAAAACAACAAAAACAAAAAATCAGTCTTTGAACACTAGTGAACCTCAACA
AATTATAAAGTATTACCCTTAGGTGTATTTCCACTAAATAATCCATTTTAAATGACAAACATTTTGT
CAATTTCAATTTCCAGATAGATCTTTCTAAATCAGTTGTTTGAAGTCTAAATGCTACAAAAAGATAGATG
CCAGCTAGGTGTGGTGGCACACATCTATAGTCCAGCTACTCAGGAGGCTGAAGTGAGAGGATGTTTGA
GACCAGGATCTCGAGGCTACAATGAGCTATGATTACACCACTGCCTCCAGCTGGAATACAGAGTGAGA
CCGTGTCTCTTAAAAAACAAAAACAAAAACAAAAACAAAAACAGATGTCATCTGGGCTGA
TGAATTTCAAGACAAGTTGGATGGACAGATGTGCAAACTCAAGCAACCCACATATTGAAAGACAGGTCT
CCTTAACCTGGCTTTAATCTTACTCAAGAGAATGACTAAATAAGGGAAATTTGCTGCTTTATAGGAAT
CCTGGACATAAAGCTTCTGTATTGTATTGAACTTCAAGAACCTTTCAAGAGGAAGGCTTTATTTTAC
ATGGTTCTTCTCCATTTACAGTTGTCTGGAGGATCCCTCCATATTATGTAATCCCTTCTCCTAAGGCT
TGAAAAGGACATATACATAGAGACGTTTATAAAGCATCTAGCAAGGGGCTAGCACACTGCAGATAATC
AATATTATTTCTCCTTCTCCCTCCATCCTTCATACAAATTTTACCTTCAATTTTCTTAGACTAAGC
TCTACCTTCCAAATGTAGACCATAGCTTACCTCAGGTAGGAACCGCTTACACATTTTAAATTATCAG
CACCTAGATTACTCTTTATCTTTAGTTGGTATCAAGAAGTTTTTGTGTTAATGAATGAATTTTAAAGT
CAAAGGATTTACTATAGCTTTATAGTACATAATAACACACTTCTCTTTGATTCTAGTTCTCAGGAAAGC
CTTTCTCTTTTTTTTTTTTTTTTGGATAGAGTCTTGTGTGTCGCCAGGCTGGAGTGCAGGGGCGTG
ATCTCAGCTTACTGCAACCTCCGCTCCTGAGTTTAAAGCAATCTCCTGCCTCAGCCTCCAGGTAGCTG
GGATTACAGGTGCCTGCCACCATACCCAGCTAATTTTGTATTTTGGTAGAGACAGGGTTTCCACTGT
TGGCCAGGCTGCTCTCGAACTCCTGACCTCAGGTGATCCACCCGCTCAGCCTCCCAAAGTGTGGGATT
ACAAGCATAAGCCACTGCGCATGGCCAGGAAAGCCTTTTCTAATTTTCTAAGTACCTTCTGCTATTAA
ATGCTCTCATAGAATGTATCCTCATTTTAAATTTAAATTTGTTGAAGACTTGTGATAAATATCTATCT
TCTCAATCAGGTGAAAGCTCTGTGAATGTAAGGAAGTGTGCTGTTTTTACTCATAAACCAAAATCCTAG
CATGTACCAGGGTTCTGGTACACATTAAGCATTCTAATAGATGTTTATTTAAAGAATGAATAGCTTAAA
TTTCAACAAAGAAGAAAAATGGATCCTTCTGTTACATTCAGAAATACCTTAAGATTTTAGCTATGAA
GGGGTCAACCCGACCATGTGTCTGCTCACCTTGTGATTTTCTATTTGAGCCTGTAACGCCACTTTACTT
TTGGTTTGTTTAAGTGCCATGAGCAAGCTTTTCTTCCCAATCTTACCAGTTCCACCATGCTTGGCA
ACAAAGCATCTTGTGGCTCTCAGTGACGAAAGGGCTGCTGAGTTCTGTGTACCTGGCTCTTAGCATTC
CCACATACTGTCAAGTACATCTGAAAAGAGAAGAGCAGGTGCACACATGCATTTTCATCCAACCGGGG
AATAACTGAAAGCAAACTAAACTCTGCTGGTGAAGAAAAGGATCTGGCTCCTCACAATCACAGTGCT
GAGTCAATGTTTTCTGCTCAGGCATACCTCTAATTTGTAACCTCCTGGAGTAAAGCATAAGGTAATGA
AGCCTCTCCCTTCTATCTCTTAGTTTGGCCACTCGGCTCTCGGCGTTCTCCAGCTCCACTGTATATGCAT
CTGCTTTCTAAGTGAGAGACAATACAAGAAAAGAAAACCTTCAGTAAGTCAGAGAGTACACATAGTTA
TCTAAAAAGAAATTAATAGTACAGAAAGGGATGAAGGAAAAGCAAAATCCAGCTCCCGCTCCCTCAC
CTCCTGCTCTCCTTAAACATCTTCCAGAGGTCCCAAGTTCTTAACATGCTCCATACCAAGTAGGATGA
CATGCATATCCCTAAACTCAATGAAGTGCACACAGCATCTGTCTGCGGTTAGCATTCTCTCACTCAC
AGCTCTTACAGCATCTCTTACATTTGGTATACACATATCTAGCTCCTTCCGAAACAGACACAGCATGCTA
TTGTAAGGGTGTACCTGCTTTTGTATCAGTCAGCTCTCAATGGACTTTTGGGCTATATACAGTTTATA
ATTCAAGCAGAGCTGCTGGGTCCATCTTAAATATTTATGACTTATTTATTTATTTATTTAGAGACAAAA
GTCTGGCTCTGTCAACCAAGCTGGAGTGCAGTGGCACAATCTCAGTTCACTGCAACCTCCGCCCCCAAG
CTCAAGCAATTATCACACCTCAGCCTCCGGAGTAGGTGGGACTACAGCGCTGTGCCACTGCACCTGGCTA

FIGURE 1, sheet 52 of 66

ATTTTGTATTTTCGATAGAGATGGGTTTGCCATGCTGGCCAGGCTGGTCTTAAATTCCTGGCTTCAAG
TGATCCACCTGCCTCAGTCTCCCAAGGTGCTGGGATTACAGGCGTGAGCCACCAACCTGGCCAAAATATT
TATCTTTATGCATTGTCTTATATCCTTAGGAGGAGTACAGTTTCAGCACTTCAAACAGTGTGGACAT
AGTGGATCCTCAATTAATATTTGCTAAATACATGAAGTCAAATTATTGCTGGAAGAGAGAGTATTCATGT
TTAAATTTCTGATATACAGACAAGGATCCCAAGGCTCCCTGGCAAGAGGATGAGGGTCTCATTTTCC
AATACCCCTTACCAACTGGACATACACATTTTGCATGGTTGATAAGTGAAGTGGCTCCTTTTGT
TAATACATTGTGCTTCAGAAAATTAGGAGATGTTTTTAAAGTCAACATAAATAGTTCTCATTTTTTAT
TTATTACTTAAGCCTTGCTGCTGCTCACAAGGAAAGTAGTTTCAAGACACGGCTTATATGCAAGCTC
TGTGTTTCAAAGTTAAGTCAGTCTGAATTATTTTGAAGTATTACCTGAAGCTGTTTCAAGCAACTCTGC
CCACTGATTTTCAAGAGCTGTTGTAAAGATGCTTACTCTTAATGAGCTGATGATATAATCTCTTTA
TTTCATTCTGTAAGATAAATGTCGGAAGTGAAGCAATCTCATTTAGGCTTCTATCTTTTTTTATATT
TAGTTGGTTTTTATAATTTTGTGACACTAGAAATTTCAAACAAATACAAAATAGAGAAATCCCAATT
TATCATCATTAACTTCAACAATTATTGATTTCATGGCTGACCTTCTTCCCTCTACATCTCCCTCCAGT
CTCAACTGTACTAATCTCCTTTCCTTCAAGCTATTTTGAAGCAATCCAGGCTCTCAAGTCATTTTCATC
AGTATACGTTTCACTATATATTCTTAAAGATAAAGATCCTTCTCTTACTCCAACATACTCTCCCTG
CCATCAATAAATCTCTTAATATGATTTAACTATCCAGACAGAAATTCACATATCCCTAATGCTTATAA
TTTTTCTTTTGTGTTTGTTCATGATGATCCAAATGAGGTCACATGTCATGATGGATAAATACATCT
AGATCTCTTAACTTGAGGATCCCTGACCACTTTTTTGTGTTTCTTGAATGTGTGATGTGAAAAATG
GGTCATTTGTTTCACTAGTTCCTCCAGGCTGGATTGTCAGACTGCACTCCAGTGTGCTGTTTAACT
TGTTCTTCTTTTCTGTCTGTTTTACTTGGATTCTAGCAGCTTGGTCAGATTGAGCTTGTATTTTAT
GGGCAAGCTCATCATAAATAGTATGGGTTTCATTTCTTTTCTTAGATAATTTTAGTAGCTTCCCTA
ACTCTTCTACCTGCCTGGAGTCTCTGCTCTCCAATTCACTTTAGACAAGTGTGGAGGAATCTACCTGA
AACATACAGGATTGTCTTCTTAGCTCAAAAACCTTAATGGCTCCCTCTAGCTAGAAAAACAAAAACA
AATGCTTCCCGCCCGCCACCATTAAATTTGTTAAATGGCTAAATGTAATACAAGAAATGAAACATTTAT
TAGCTGATCTTAAACAAATTTCTTACTCAAGACTCTACTTTTTTTATTTTTTATTTTTTACTTTTTCT
TTTTGAGATGGGATCTATGTTGCCAGGCTGGTCTTGAAGTCTGGGCTCAAGCAATCCACCTACCTAGG
CCTCCCAAGTGTGGGATTACAGGCTAGCTACTACGCTCGGTCAAGACTTTAAAGGGCTTCACCTTT
TTTTTTTGTGATGGAGTCTGCTCTGCCGCTCAGGCTGGAGTGCAGTCTGTGATCTCAGCTCACTGCA
ACTTCTGCTCCAGGTTCAAGCAATCTCTGCTGCCCTCAGCTCCAGGAGTGGGATFACAGGCACACA
CCACCATGTCCGGCTAATTTTTGTATTTTGTAGAGATGGGTTTACCATGTTGGCCAGGATGGTCTC
AATCTCTGACCTCAGGTGATCGCTGCTTGGCTCTCCCAAGTGTAGGATTACAGGCTGAGCCA
CTGCACTCGGCCAGGCTTCACTTTCAAATGATCTCAACCATGAGCAACAAACAGAGTCTCATCAT
TTCCCTTAGCAATCTTATTAACAAATGTCAAGGAAATAGGAATAGGATAGGGGTTTCACTGCTGAAC
TTAAACAGTGCCAAATAGGCTGTGTGCTCGGAATCATACCTGGTAAGTGGGTTGTAATCGAGGCCAG
CTTTGAGGACTTCTTACAGACAGCTGACGCTGAGTGTGCTCCAGGCAGACTTGAAGGTTGTCAAA
ACATTCAAGGAGCAAGTGGTGTCTCGCCAGGCCAAGTCAAGGCTTTCAAAGATCACCTTCTTGTCA
CTTAGGCTAAGTAAAGTTTCTTCAACTCAAGAGCCAGGCTCTGAGTGGAGAGGAAGGAAGCAATGAA
TGAGTCTGACCTCAAGAGGCTTCCAGTGGGCTTAACTCAGGGGCTGCTGTAATGGCCAACATGGG
CTCGTGAGAGTGCCTACCTCGTAGTGACCTGCTGGCCAGAACCATCTCCCTGTAAAGTCTGGGCAT
CTCCAGCATCTCTCCACACTGCTGAGGCACTGACTGAGGGTCAAGAAATAGTTCAAACAATTTTTATCC
AAATGTATATATGCTTCTGTCTATATTTTCTGAATCAAGAGGAAAAAGAAAAAGAAAAATTAAGATA
CCTTTGCCCTTCTAGACCTATATTTTGCCTAGTTTCCATTATAGTTTATGATTTATGTTATGCTTCTTT
GTAATAGTTGCTTCAAAGCTTTGTGAAGTGGTAGCAGAAACAAATAAATAAATTAAGTATGTTAACT
TGGAGAAAAATGAGTTTAAAGAGCTCAAGCTTAGGTAGTTATTTGAGTACTGCATGGAACATAAAGGTAA
ATCATGAGATGAAGGATCCCTTAGCAGGGGATCCAGGTGAAAGTGTGGTCCAGATAAATTACATGTC
TCCTTTACCCTGTTTCCACCTCCACATTTCTAATGTAGGAGAAAGCGGTTAATGAAATCAAGTATAGC
TGGGAGAAAGGAAAGAGTCAAAAAGAGAGCTTGAAGGGGTTGATTACAAAGAGGAGGTACAGTGTCT
TAAAAACAGGAGCAGGCTGCAGAGGAGGGGAAAGTGTCAATTTATGAGCCGATTGTGAGAAATCAAGGCT
AGGTGTATGATCCCAAGCAGCTCCAGGTGTCATGCAATGCGCCTGGTGAGTCTGGGAGCCACAGATCTG
TTTTAGCATAGCTGCTGGGCACTCTTTTCTTTACCCACAGTTACCTGAATCTTGAACAGTTAT
AAGTAGTTTAGGAGCATGCCATAGCTAGTCACTCCAATTTGGGCTTGTCTCTACTATCTTCTCTG
ATAGACACCTCACATAACCTAGCATTAATTACCTCAGTATTAAGTCTGCTCAGGCTTGAACCATGCT
ATACTCCCTCCCTACTCTCTCTTCAACCTTCCAATCCAGATCACCCTGACAGCGCACTCATCAATC
ATGATCTCTTTCTGCTGATCTGGACTCAGAATCTTTGCACACAGTCCCTAGGGAACCACTACAAAA
TATATTAGAGTTGGCAAGCAAGATCAATTTCAATTTGCAATCCTAGGACCATTCATTTATGTTTCTTTT
ACTTGTCTCAGTGACGACAATTATGACCAAGTCACAATGATGATATCTCTTTGTTTATGTTATTACAATG
AGGAAAAACATTTGTGTGAGCTTCTACCTGTGTCTGAAGGTTACTTGCTTCTTGGCGCAGGCTTCAAG
TTGGTGGTATAGGTTTTTCACTTCTTCAAGTGTGGGTATCTAAAGTTATACATAGTCACGCTGGGTAGA
ATACCCATATTTGTGAAACCTATTGACAAAGGAAACCTATTACTGACAGTTTTAGACCTGCTGAT
GTTAATTAATTTATTTTTTATTTTTCGAGATGGAGTCTTGTCTCTGCGCCAGGCTGGAGTGCAGTGGCA
TGATCTCTCTCACTGAAACCTCTGTCTCCCATGTTCAAGAGATTCTCTACCTCAGCTCCCGAGTAGC
TGGGATAACAGGTGCTGCCACCATGCCCGCTAATTTTTGTATTTTGTAGTACGACGGGCTTTGCCAT
GTTAGCTAGGCTATTCTTGAAGTCTGACCTCAGGTGATCCACCTGCTCAGCTCCCAAGTGTGGGA
TTACAGGCTAGAGCCAACATGTCAGCTGCTGATATTAATTTAAATAGAAAAAGATGCTTAGCATGCT
GTCTTCTGAGCCACTTCTTGGTGAACATTTTTGTCTATCTTGGCATTATAAGAAAAACAATTAAGTT
TTAATATTTTGGACAGCTTTGAAAGTCACTAGTATATTTTAGATACTTGAAGTTTCATTAGATAT
CAAAATGAGAGGAAAGGCTGGGCTTAGTGGCTTATGCCATAATCTTAGTACTTTGCAAGTGAAGGTGGG
AGGATCTTAGAGGCCAGGAGTGAAGGAGTTCAAGACCAAGCTGTACAACATAACAGATACATCTCTC
TGCAAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TCCTAGCTACTCGAAGGCTGAGGCAGGAGATCGTTTGAAGCCAGGAGTTCAAAGCTATAATGAGTTTGT
GTCATGCCACTGCACTCCACCTGGGTAACAGCGAGAACCCTCTCTTTTTTGTAGACGGAGTCTCGCTG

FIGURE 1, sheet 53 of 66

FIGURE 1, sheet 54 of 66

GTCACCTCTGTAATAAATTTAAGTAAATGACTCTATAGTCGCCCTTACAAAACATAGCAGAATGTATCCAG
 CAGAGGATAGTGGTTAAGAACACAGATCTTGGAACTAGACTATCTGGTTTCAGATCCCAGTCCCTACCACT
 TAGTAGATGTGTAACACAGGCACCTTACTTTAGAGGAGTGTGCCTCTAGTAGTCTGTAAATGAAGATA
 ATAACCGAACTCACCTCCTAAGGTCATTATCAGGAGTGAATGAATTAATCCATGTACTTTGGCCAGTGC
 TTGATACTCTGTGCTTAAAAAGTGCAGATATCTTATTTTCCCCCTACCTTCCTAATCTTTTTTTTTTT
 TTTTTTCTGAGACGGAGTCTCACTCTGTGGCCAGGATAGAGTGCAGTGGTGTGATCTCGGCTCACTGCA
 ACCTCCACCTCCCAGGTTCAAGTAATCTCCTGCCTCAGCCTCCCAGTAGCTGGGATTACAAGAGTGGC
 CCACCACGCCAGCTAATTTTTGTATTTTAGTAGAGATGGCGTTTCGCCATTTTGGCCAGGCTGGTCTC
 AAACCTCTGACCTCGTATCTGCCACCTAGGCCTCCCAAAGTGCCTGGGATTACAGGCATGAACACCAT
 GCCTCGCCTACCTTCCTAATCTTTTATGTTGCAATCCAAGTGTGGAGTAGGAATTTAAAAAGAATTCCA
 CGTAACGTGTTGAAATTTATTTCCCTTGCTCTTTCTCTCTTCTCAAGACAAATAAGCCTCCAAACT
 CTCACAACACCATAGAAGAAATAATTTGGAACCTGAAATATTTAGTTATTGATACAACCGGCCAATTCAC
 ACATACTTAAAAATATATCAGCTGGATGAAGTAAGTTTCCAGTAAGTCTCGGTCAATTGTATTCTCTGCTC
 AACAGATCAAGTTTGGCCTCTCCTGGGGCTCAGCAGCCTGCTCGGTCAATGCCAGCTGGCTGGGCACCTCAC
 GTCAGCAGCAACAGACAACTCACATTCAGCACCATGATCATTTGTACTAAAACCTCGGTGCGTGACTAA
 GAACAAGTTCATTCTAGCGAATTTAAGGAATTAATAATTTTCCCTAAGGACGAACCTTATTCTTAA
 AACAAAATGCAAAATTAATTTATCCTATAACTCCTTCATCCAAGCAGCTGTAACAGGCCCTTTATCTAT
 GCTTTTACTTTCTGTGGTTTCAGTTACCTGCAGTCAATCAGGGCTCAAAAATATTAAATGGAAAATTTCCA
 GAAATAAATAATTCATACATTTTAAATTTTGCACCACCTGAGTAGCGTGATAAAATTCACACCATCCTG
 CTCATCCCAGGAGGATGTAATCATCCTTTGTCCAGCATATTCATACTCCAGCACTCGGCTCATTAG
 TTACTTAGAGGCTTGTAGTATACCTAATCTGAAAATCCAAATCCCAAAATGCTCCAAAACCTGAAACT
 TTTTATGCACCATGCCAGAAGTGGAAAATCCACACCAACCTCATGTGATGGGTACAGTTGAACCTGTG
 TTTTATGTATAAAATATTAAAGTTATTATATAAAATAACCTTCAGGATATGTATATGAGGTATAGATAA
 AACATAAATTTAGGCCTAGCATGGTGGCTCATACCTGTAATCCAGCACTTCGGGAGGCTGAGGCAGGAG
 GCTCACTTGAAGCCAGGAGTTTGAAGCAGCCTGGGCAACACAGTGAAGCCTGAGTCTACAAAAATAA
 AATTAGCCAGGCATGGTGGTGTACGCCCTGTAGTCCAGCTATTCGGAGACTGGGGCAGGAGGATTGCCT
 GAGCCGTCAAGGTGACGCTGAGCCTGATCATGCTACTGCAGCTCCAGCCTGGGTAAACAGAGCAA
 GACCCGTGTAACCTCTAATAAATAAAGAAATTAATTAATTAATTTAGTGTTTAGACTTGGGTCTCTCT
 CTAAGATATCTCATTATGTATTTGCAAAATATTCAAAATCCCTCCCAAAAACCAATGCAAAATACTTC
 TAGTTCCAAAGCATTGGGGATAAGGGATACTCACTCTGTAGCCATCTCAGTTGTGAGTCAAAAAACAT
 AATACACACAGAGTTTGGTACTATCCACGGTTTCAGGCATCCATTTGGGGGTCTGTGAACACAACCCCCAC
 AGACAAGGTGGGACTACTCTACTTATGTCTCTATAGATTCTTCTAAGTTTAAACAATATGTACCCATA
 GACTGTACAGTGGCTATAAACAATAATGTAGCATAATTTTATGCTCTGTTTTTCCCACTTAACATTACAT
 ACTTTTTCTATCTGTCTCCACAGTTTCATGATTTTCACTTTTAAACAGCTACAAGTTGATATCCCATGATTC
 ACTTACCAATTTCCCTCTTGTATCCCTTTTGTCTTAGTTCTTCACTTTTGTAAATCAATGCTTCTATAAT
 TATTTTTCTCATTTGGGATTATTTTCAGAAGGTAAATTAAGTAATGGTACTGGCCGGGCACGGTGGCT
 CATGCCGTGAATCTCGGCACCTTTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTCAAGGATTCGAGATCA
 CCTTGGCCAACATGGGGAAACCGTTTCTACTAAAAATACAAAATTAGCCAGATGCTGTGGTGCATGCCCT
 GTAATCCAGCTACTTTGGGAGGCTGAGGCAGGAGAACTCACTTGAACCCAGGAGGCAGAGTTGCAGTGTG
 CCGAGACTGTGCCACTGCATCCAGCCTGGGTGAGAGCGAGACTTCACCTCAAAAAAAGTAATGGTAC
 TTTTAACTCAAGAAGATGAACAGCTTATATGTTGACAACCTGACCTCCCAAAACATGAGCCAATTAGAT
 AGAACTACCAGACATTAGAGTATCTATTTTCCAGAATGATATTTTAAATGTAATGTGACAGCTGTTT
 TAATTTATGCTTTAATAATCAAAATTAACAATTTCTCAATATTACATTACTAAGCATATCTCCCTC
 CCTCCCTCCCTCCCTTCTTCTCTTCTCTTTTGTGACAGTGTCTTACTCTCTTCCAGGCTGG
 AATGCAGTGGTGAATCATAGTCACTGCAGCCTTGAATTTCTGGGCTTAAGAGATATTAGTGCCTCAGC
 CTCCCAAGGTAGCTGGGACTACAGATACACACCACCATGCCAGCTAGTTTATTTTAAATTTTTTTTAA
 ATTATTTTGTAGAGACAAGGTGAATATGTTGCCAGGCTGGTCTCAAACTCCTGGCCTCAAGCAATCC
 ACCCGCCTTGGCCTCCCAAAGTGTGGGATTACAGGCGTGGCCAGCCTCCTGGTCCATAATCTTCACT
 GAAGTGTGCTCCTGTCTTTTCCACTGGAATTTTGTGTTTTTACAGACCACTTTAAGGT
 TTTTATATGTTTTCAATAATAACTTTATTTGTGTTATGTTATATAAATGAGCCAAAGATGCCCTTTGTATGTT
 GGCCCATGTGGTTTTTCTTCAAAGCAGGTGAGAAGCAGTAAGTTCAAAAAGTGCCAGCACCAGACTCAA
 ATTTTACACATTTGACGGCTTTAAATGCAGCCCAATAAGCATATTTTAAATCCATTTAGAGCCTGTCTG
 CTTTGCATACCCCTGAAAACCTGCACCAACATCTGCCAGCCACGGATAAGACTAACCCCTGGGCTATAAAA
 AAATCCCAAGCCTCTGCTGCCCTTCCGGCCTCTCTGACCCAGAGACCCTCCACTGTGCTGAGACATCGCT
 AGACACATAAGTTCCTCTCCGTTTCTCCTCTCCCTGGGAGTTCCCTTGCTTCTCTCCCTCTGGGTG
 GTGGCCTGACCCCAAGTCTATGCTTAGCCTCTGGAAGGTCTCCTGCAGTAAAGAGCTTCCCTGTCTCTC
 AGCATCATAATCTTGGCAAAATGCTGCCCAATAAAGCTTGTGGGTGCAACTGCCACCTGGTAGTCATG
 TCTTTTCTTTGAGCAGCCTGGAATCCTTGAACCTCACTACAAGTGGCAATGAAGATGGGATTCTGGTGT
 AATCAACAGAGTTGGCATAGGGTCTACCCAGTCAAGTATGATAATCAGTTGGCAATCAATCCTGAATGGCT
 TAAGTGGGTGGGACTCAAAATCTGGACTGCCTCGAGTTGAGTTAGCATAGCATTGCTCTGTGCTGTATG
 ACGCTCTATGCTATTACAGGCTCCTTGGGCTCATCAGCCAGGCCAAGCGGAGTGGCAGTATCTGAG
 TGAACCTATCCCTTTAGAACTGACTTTTGGGCTGGGCATGATAGCTCAGCCTGTAATCCAGCACTTTGG
 GAGGCTGACTTGGGTGGATCGCTTGGAGCCAGGAGTTCGAGACCAGCCTGGGCAATATAGTGAGACCTCT
 CATCTCTACAAAAAATACAAAAAGTAGCCGGGTGTGGTGGTGCAGGGCTGTAGTCCAGCTACCCAGGA
 AGCTGAGGTGGGAGGATCACCTGAGCCAGGAAGTCAGGCTGCAATGAGCTATGATTGCTCCACTGCAC
 TCCAGCTTGGGTGACAGGCTGAGACCCGAAAAAAGAAAGAACTGACTTTTGGAGTCAAGAGGTGCC
 GAGATGCACAGAAAGAGGCTGGCCTGTCTGTCTGGTTCCTGGATGTTGTTAAGACTATGGGCTTACAT
 AGAAGGGGAGAAATGCACAACTGTGGATCAAAGGCAGGCTTCCCAACAACATAACAGGCTACAGCAGGA
 AACGCTCCTGTGGCAGGCTAGTGATATGCGAACTCTGAGACAAGAGGATGTCTTATCCTGGCAGACA
 AGCCCATATGATAAAGACAAGTCTGGTCTCCTAAGTGCAGCTGGGAGAGAGGCTTTGCAAGCAGCTCGC
 GTGCCCTGCTCTTGTGACACTCGATTATGCTGTTGCAATGTATCATTTAGCCTCTCCCTGGAGGGAT

FIGURE 1, sheet 55 of 66

TAGAAACCCCAACCTTCGGGCTGAGCCGGCAAGCTTTACTCAGAGCGACTAGCGGCAAGGAAGTTTATAT
 CCCTGCCCTCCCAAGCAAAACCCAGGGCATTCTAGTAAAAATGGTTGCAAAAGCCCTTTTATGCTGTATC
 TTCAATTTTGCAAAATTAATACTTTTGGTTTCATTATGATGAATGAATATTTCTAATTACTTACTAAAAAT
 GAATAAGATAATAGCATTACTGAGCACTTGTATATACCTTTATATACCTATTTAATCCTGACAAAAATC
 CTATGAGATAACTTTTATATCCTATGACACTGCTTTAAATACCTTATTTAAATCCTGCGACACTACTTTAA
 ATACCTTATTTAATCCTGACAAAAATCCTATAAGATAACCTACTATATAAGGAAAAATGAGGCTGAGAAGT
 TCACCTCCCGAAGTTCACAGCTAATGTGACAGAGCTGGATTAGACTCCCTAGATTCTGAACACTACTGTC
 CCCTCAAATAAGATAGTTCATAAAGCATTTCAAAGAATTACCTGAGAATAAAAGCTGAGGCCAAGAT
 AAATGTAAGGGTCAGAGTAACAGAAAGAAAAACAGTGTGCTTAAAGAGAAATTCACCAATCTTGGCAG
 ATGATTGGTGGAGAGGCAAAACATGAACCTCTGACTTCTCAGTCTTACCTGGCACCCTACCAGCTGCTGTT
 CCAGCACCTGCTGCATGCTGCGTTTAAATGTTTCCGGCTCAACTGCCACGTTGGCTTGTTCAGGCCACAG
 CTCAGCTCGGCCACCTGGGTCTTGCAGGCATGCAGGACTTCTGTGGGCTCCGGCTAGTTTCTCCACC
 CTGGGCTCAAACCTCCTTGGCGCTCAGAAGAGTCCAGAGTGTACAGCTCAATAGGAGGTGTGGTGCCCT
 AAGAGAAATCCAAAGATAAGCCAGGGAGTCCAAAGTTTTCAGACTTGGGCTGCAAAAGACCTGGGAACCT
 GCAACATTTTCCCGAGTTAAAGAGAAACAAAATCAGGACAGAAGAGGAAAGAAAAAGAGAAATGCACCT
 CCACACTCATAGCAAAATCAGTGACCTGGTGCCACAGGTTTCCAAGCAGCCGATCTGCGAGTAAGCAG
 GGTGAGTAATGTAAGGTCAGAGGAGTCCAAACAGGCTCAGTTCCTACTCCCGGTGAGCCCAAGGAGGAG
 GGTGAGTAATGTGAGTGACAGGGTGTGTGTGTGTGTCGAAACATTTAAGGGAATTGGCCAGTGTGTAGCGTT
 ACGTGACACATGATTAAAGCAATGCTTACATTGCTGCACACTTATTCCAACAGAAAAACAAAACAAAACA
 GAACACGATCTTTACCTCCAGCAGGGATACAATAAAATATACCACATAATTTTAACTTGACATCTTCTC
 AAATAGTTAGATTATAAAATTTTAGCTTTTAAAAACATACATGGTATTACTTATCTAAATTTTTCCTCCT
 AATAAAAAACAGCTTGAGTCAAGTAATGAACCTCAGTGGGGTAACCTGGAACTTTTTCCTATTCTCAG
 AAGGAATCCCTAAATACCTTCTTCCCTTCTGCATACTCGAATATGATTGAGTTAAGGACTAGATGCT
 CACAGTATAAAGAAAGTGTGGTGTGTTCTTTTACATTGAAATAACTGGGTGTGTTATCAACTGATTGGA
 AAATTTTCTCCAGGATCAAAATGAAAGTATTCAGTAATTATATATATAGATATGTTCAACCTGGAGCA
 AAAGATAATTGGATAGAGAGATGATTACCTCCACGTATTATCTATCCTTCTCAGAAATATGAAAAA
 AGTAGTATCGATACCTTCTAGAGAAATTCCTTTAGGAATAAGGATTTGTGTTTGTCTGATAAACTTTTG
 CTCTCAAAAAATATTTTATTGATTATGATAAAATACAATGTTTCTATAAGAGTTTGTAACTGTTAGC
 ATCTAATAATAAAATGTAATTTCTAGCCAAAGTGACAAACTTTGAATGGGAATCGATTGCAAAATATACCC
 TAACTCAAATGCACATTCTTCAATGTTTACGGAATTTTGTGTTAGACATAGAACTTTTCAAGTGTAAAGAGC
 GAACAAAATTTGGTAGGTGTGTAACAAACAGTGTGAGGATGAGAATGCTGTTTCAATTTTCATGCACACTGA
 TGAGTATTATGAAAGCTGGTCTGGCACAAGTGTCTTGGGTGTACTTTTACCTTTTACCATCTATTATC
 TTCACATACATGTGCTGTTTCTGCCAAATGCCATTTCTTCCCTGCCTTCATTAATCTATTATTATAAT
 TTTCTTCAAGAATCTTGAACCTTCTCAAGGAACTTTTCTTGTGTTGTGCTTTTCTGAACTTCATA
 TATAGTCAAGTCTATGCTTGGATTCAACTGTTTAAATTTCTTTTTAATCTGACCTTTTTTTTCTTC
 TTGGGAAGAGTTTCCCTCTGTGACCCAGGCTGGAGTACAGTGGCATGATCTCGGCTCACTGCAACCTCCG
 CCTCCAGATTCTTCAAGTGTGCTGCTTGGCTCCCAAGGAATCGGATTACAAGCACACACACCAT
 ACCTGGCTAATTTTGTATTTTGTAGAGGCAGGGTTTGTGCTGTTGGCCAGGCTGGTCTTGAACCTCCT
 GGCTCAAGTGTATCCACCCGCTAGACCTCCCAAGTGTGAGGATTACAGGCATAAGCCACAGCGCTGG
 CCCTGATTTTTTTTTTAAAAAAGCAACAGTGTGTGATTGCTTCCAGACTTCCAGATATCAATTTCTA
 GTCATCTGATTAATTTCCCTTCTGTTTTCAGATATTGCTATATCTAGTTTTCAGATATTGCTACAGACA
 AGATTTTGGAAATCCCTTTCTCTTTTTTGCCACTTGAGAGAACAATCTATTAATATTAATTAATCTAAGA
 CAATCTATTAAATTAATCTGTAATCACAGATTACCACCTGCCTTCATTATTTATTCAAAAATTTTATT
 TGAGCACCTGTATATGCCACGCACATTTTTTTTTTTTGTAGATGGGGTCTTGCCATGTGCCCCAAGTGG
 GTCTCTGATTTCTGGGCTCAGGTGATCTGCTGCTCGCTCGGCTCTCAAAGTGTGGGATTACAGGCATGAG
 CCACCACACCCAGCCCTCCACACACTTTTTTAAAGACAGTATTGAGTTTCTGCTTTCTCATGAACCTC
 ACCAAATTAATGAGGAAATAAGCAAGCTGCATGACTAATCTGGGTTTTTTTTTGTAGTTATTGAACTG
 GCTCAGGAACCCACTAGAGATCAGTTTCCACCTCTTTTTTAAAGTCTAAGAAATCCAAGTGCACAGAA
 GTTCAATCAGCCACATGCCCTCCCTTTTTTACCATTGTGCTTCTGAGAAGCACCCCAAGTTACTAACC
 GGTACACAGCTCTGTGATCTTTTAAATCAGAGTTCCCTTGTTTTTTACACAGTAGCATCCCTGTAAAT
 ACCTTCTCTATATGATAGCCCCAAATTTTAAAGCAAACTTATTTAAATGGATGTTTTATAATTTGTACA
 CTTTGGCGGGGGGGGGGTGTAAAAAGTATTACTATAAGTATTCTTATTAAATAAATATGCTCTCTC
 TAAAGCATAACTGTAAATTAATAATAGCTAGCCTTTATTGGGCTCTTACCATGAGCAGGCACTGTATGGT
 CACACAACCTAGTAAACAGAAATCAAAGCAATTCCTGCTTCTACTACACTTTGGAATCTACAAGTCCACAT
 TCTTGATATAATTTACCAACCTTTTAGTATCCAAGTTAACTTTTCAAGTGGTGAATCAGATTGCTTCAC
 TTCTGCATCAACACAACACTGATCTAAGTAATCAGTGAAGTAATCAGTAATCAGTAAAAAACTGCAGT
 TAAATGCAAGTTGATTTTCTGGCTATTGCTACATTTTCAAGCAAAATAGCAAACTTTTACATTTTCTCC
 TTAATATTTTCAAGTCAATTTACAAATACCTGCATATCTCCCCACTGCTTATACCTGCATATCTCCCCA
 CTGCTTATGAAATGTAAGTGCATACCTTAAAGTACAGTACCTAAGTGCATGAATAAATGAAAGCAT
 GCCCTAGCAATGGATGGTGGTGGTGTGTTTACTCTGAGGTGATGCTAGCTGATTTCACATTTTACATTTT
 TCCATACTAAATATTTATCCTTGGTGTGTAATACGGGTCAAGAATGACTCAGAATTTTACTAAAAATATG
 CAATTTATCTATTTGGTCAATACACTTAACTCTGAAACAAAAGGTTTGTGAGGCTGATAGAAGGCTGATG
 ACATTTGGCTGCCTGGTTTCTGCAAGTCCCCTTCTCTCATTAGTGATGTGCTGTGCCAATGAGAC
 AGAAATCACTAAAGGCAAGGAGAGACACTCAAGAGAGTATGGAACCTGGAGCCAGTAAAGGTGTCCTG
 AATAATCAGAAGTGGACAAATTCCTCTGTAGTAAAGGGTAACATCTATTTTCTGCTCCAAGAAATTC
 TCCCAGCAAAAGTTCTGAGTTAAGAAGAAATACAAATACACATACATAAATAGTTTCAAAGAGAG
 TCACTGGAGCCTAATAGTTCAAAGCTCAGGTTTTAACTCAGAGTCAGAAAGATCTGGGTTTGAATCCTA
 GCTTTGGCCTTACTAGCTAAATGACCTTGGGCATCTTACTTCTGAGCCTCAGTTTCTCCATCTGTAA
 AGTGGGGTAACAGTAATATTTATCTCATAGAGCTGTTGTTAATGATTAAAGAGATAGTATATGTAAAT
 CCCAGTACCTGGCCATATTAATGTTTCAAGTAAATTTTGTATCTCTCTTTTCTCTCTCTCTCTCT

FIGURE 1, sheet 56 of 66

TATTGTCATCATTATCTAGTATCCACATGGCCAGGGAAAAGACCCTAGAGGTTATCCACACCAGCAGAAA
CAATATTAAAGCAGAATGGCTACTGTAGCTAAAACACCATTGAAGCTACATCTGATTTTAAATAGATGTC
AAAAATAACATTACGGTGGGCAGATGGTTTGAGACCAGGAGTTTCGAGACCAGCCTGGGCAACATGGCAGA
ACTGTGTCTGTGAAAAAATACAAAAATTAGCCAGGCGTGATGGTGTGTGCCCTGTGGTCTTAGCCATCCGG
AGGCTAAGGTGGGAGGATCACCTGAGCCCAGGAGGTTGAGGCTCCAGTGAGCCATGATTGTGGCCACTG
CACTCCAGCCTGGGTGAAGAGTGAGACCATGTCCCAGAACAAAACCAGATTAAATCTGAACAGCAAAA
AAACATACTGACTAGGTGAGCAACTTCCTTAGACCTAAGCATTGCCACTGGGTGTAAACCTCTGACATTT
GTCCACCTTCTAGACATATATTGTTAAGAGAGACAGAGAATGAAAGGGAGGGAAGAAAGAGAGAAAG
GAGTAACAATTTGAGAACTAAGAGATATTTTGTAGACTAGACAAAAGATTGGGAGAAAAAACATATA
TAGAACTCAGTATAAAGAGAAAGAGATGCAATAATTAACAATAAAAACAGCAAAAACATGCCAATA
TCTTTTATAGGAGCTATTTGATGAGACCTTTGGAGCTTAGGTCCAGCTAAACACCAAAATTAACCTGGG
AAATAGTACCCATCCCCACACCTGCTGTAAGGCCTTATTGAGAACAACCTGAGGTACAAGATTCCAAAT
TAGGAAGCCAGATTAGAAATATTTCTGGGTTGATTCTTATTCCTCCATTACAAGCCATATATATATATA
TACATTTTTTTAAAGACAGAGTCTTGCTCAATCGCCAGGCAGGCTGGAGTGACAGTGGCGCAATCTTGG
CTCACTGAAATCTCTCTCCAGGTTCAAGCGATTCTCTGTCTCAGCCTCTTGAGTAGTTGGGATTAC
AGGCATGTGCCACCACGCCCGGCTAATTTTTGTATTTTAGTAGAGACGGGTTTACCAGCCTGTTGGT
AAGTATGCTCTCAAACTCCTGACATCAGGTGATCCACCTGCATTGGCCTCCCAAGTGCTGTGATTATAG
GCTTGAGCCACCATGCCTGGCCCACTAATATATTTTACTCCCTGAATTTTGATTCTTAATTTGTAAA
CATATGGTAGGTATGAACCTACCTTATACAGTCTGAGGTTAAACAGATAACTATAAATGCCCTTTTATGT
AACAGGCTATTAATCAATATTAACCTTCTCTACTTTCTTTGCCCCATAAGTCTCTACAGATTAAA
GACTAAGCCAGATTAGAAAGACATTTTATGATGACAAATGGTAAATGAGTGAAAGCGTCTAATTTCTC
TATGCCATGCCATTTTTCTTTGTAATATCTGATGACAAGTCTTCCAGTTCTACAGCTTGACAGCACATA
TCTTCATATGTTAAAGTTTACAAGGAACACTTAGCTTGACGTACAAGGTATTGCAGGACACAGAACACTG
GTCATCTCTAGGTGCTAGTCCAGTATCTGAGCAGTTTACTTATTACCAACCAGGACTTACCTCTTCTGT
TTGGTTGGCCTTAGGGAACATTTGGGCTTGTCTCAGTGTTTAGTGAGTCTGGTGAGGATTTTGCC
ATGGAATTATCAGAGGTGCTTATTTCCCATATGCTTCTGTAAAGAAAAGAAATCAGAGCTCCAGAAAGG
GTCCTGCCCTGGTGCCACATGAATCTTCTTGTGCGCATGCTCATTTTACAACTACCTGCTTGCAAAA
AAGTCAGATATGGAGAAGTCAGATACGATTAGAAAAAGTTTGTTCATTAGGGAAAAATCAGCTTCCCC
AAGACTGTCTTTATTTGAAAGACTGCACTTCTCCACACTTCTCTTCTTAATGAGCACATAAACAATCTAG
AGAATTACGTACTTAAAGTAAATCTTCCAGAAGTATGCTTTGTCTTGTGAAGTATTCTTTAAAGTATG
TCTTTATGAAATTTAAATTACATGGCCAGGTGTGATGTCTCACACCTATAATCCCAGCACTTTGGAAGA
CCAAGGCAGAAGAAATGCTTGTGCTCAGGAGTTTGAGACCAGCTGAGCAACATGGTAAGACCTGTCTC
TATCAAAATTAATTAATCAATTAATATATATGATAAAGGCCACATTTCAAAGAGTGGGGAAAAGGTGAATTT
ATTCCATTTAGGAACAACCTACCAAGGCATTTTATGAAAAATATAAGTAGAATCTTGTATTACTCTTAAC
AATAAATTTAGTTATGAAAAATATAACTAGAAATCCTTGTATCACCCCTAACAAATAATTTCTCATTGTAT
TCTCAAAGTTATGCCATAAAAAATTTAGGTGTGGGGAAGCATGACAAGAAAGGAAAAATAATATTAGTATT
GACTGTCAAAAAATAAAGATAATGACACCACAAAAGATACCATAATCTAAGTTAAGAGAGAAATGACAG
ACTGGGATAACTATTACACATAGTGTAAATATTTTTTTTGGAGACGGAGTCTCGCTCTGTCGCCCAGGCT
GGAGGGCAGTGGCAGCATCTCGGCTCACCACAAGCTCCGCTCTGCGTTACGCGCTTCTCTGCTCA
GCCTCCCGAGTAGCTGGGACTACAGGCACCCGCCACCACGCCAGCTAATTTTTGTATTTTATAGTAG
ATGGGTTTACCGTTTATAGCCAGGATGATCTTGTATCTCTGACCTCGTGATCCACTCGCCTCGGCTCC
CAAAGTGCTGGGATTACAGGCGTGAGCCACCATGCCCGGCCAATATTCTTAATATATTAACTCTATA
AATAATAAGGAAAACATCAACCCCTACATAGAAAAACAGTCAAAATGGTAGGAACAAGCAAGTCGCAAAAG
AAGAGTTACAAAAGCCAATAGGCATCTAAAGAGATATTCAACATTTCTTAGAACATAAATTAATTTAAAC
ACTGCTAAGTTTGGCTAAGACTGACATATCAAAAATCAGCTTGTGTGTTGGTTGGGGGGGGGGTCTG
GAAATGCAATTTCCATGTATACCTAGGAGAAATATTGTTGGTATAGCCTTTCTTTTCTTTCTTTTCTTTT
TTTTTTTTTGGAGACAGGGCTCAGTCTGTCAACAGGCTGTGGTGCAAGTGGTGAATCTTAGCTTCACTGC
AACCTTCATCTCCCAGGCTCAAGTGATCTCTCCACCTCAATCTCTGGGACTATAGGCATGCACCACCAG
ACCGCTAATTTTGTATTTTTTACAGAGCAGGGTTTCACTATGTTGCCAGGCTGGTCTTGAACCTCTG
AGCTCAAGCTGTCCGCCACCTCAGCCTCCCAAAGTGCTAGGATTACAGGCATGAGACAACCTGCACCTAG
CCTGGTATAACCTTTCTAGAAGGCAGTTTGAATATGTGTGTACATTTAAATGGATATATACTTTGATT
CAGCAATCCTTTTAAAGATTAAACCAAGTTAAGCAATGGGAAAATGACATGTACACAAAGAAATTAACA
CAACGTGACAGAAAGCATGTGGATATTATAATCAACCAACCTTGATTGCTCTACTTGCAAGTTGTATGAT
CTTGGACAAATTAACCTGAACCTCTGAAACCTCAGTTACTTCACTTTAAATGGGAATAAAACCTATC
TTACCTATGCTTGCAATTAAGTGACATATATAAGGCATTAGCATTTCTTAACAAAATGTTAGTGTCTTT
TCAGCTTCTACTGAAAACAGTGACTGTTATCAGAAAGGTATAAACCAAGAATTAAGGTAGAGATTAGAT
AAAATTAGAAAGGTAGGCGGGGACCAGGAAAATCTGGAATGTCACGCTAAGTTTGCATTTTCTTCAGTAG
ATAATCAAACCTCCATGAAGAATTTTAGGCTGAGGTTTCGCATGATTGGTTTAGGAAAAGTCATCAGTAT
TTTATAAGATGTATTAGGAAAACAAATTGGAGACTGTAAACCAATTAGAGGGCTACTCCAAAAGTCCAGG
GAAGTAATAAGAATTGCTTGAAATAAGACGATGGCAAAAATAATGGGAGGAGAGGCTGTACACAGTGAAT
GGACATCATTTGGCCACTGACAGGATGTGACAGGTGAGAGAAATGAGGCACCTAGTAGAACTCCAAAGTTT
ATCTCTGAGAAAATAGTGGCACCACAGCAGACACTGAGAAATTAGTAAGAGGAGCAAGCTTTGAAGGAA
AGGTGTGTAATAAGTTTGTAGTTGGAGAACTCCATCCCAAAAAGTCTATCACGAGGATAGAAATGTGG
AATAGATTTATAGATTTAAGAGAAAAGCCAGACTAGAGATTTAGTTTGGTAATCACTGGCATAGAGGTG
ACCACAGCTCTCAGAGGAAATAAATTTGCCCTGAAAGAAAACAGAGAGGCCGGCGCAGTGGCTCACAC
CTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGTGGATCATCTGAGGTGAGGAGTTCAAGACTAGCCTG
GCCAACATGGCAAACTCTGTCTCTACTAAAAACAAAAAAATGAGCCAGGCATGGTGGCGGGCACCTGT
AATCCCAGCTGCTCGGGAGGCTGAAGCAGGAGAATCGCTTGAACCCAGGAGGCAGAGGTTGCACTGAGCT
GAGATCGCACCACTGCATCCAGCTGGGCGACAGATCGAGACTGTCTCAAAAAAAGAAAAAAGAAAAA
AAGAGAAAACAGGAGAGGAAGAGGACAGAACATTGGGGGAATGCCTACCATCACAGACGAAAGAGAAA
GAGGGGCAAGAAAAGGAGATGGAGGAGGACTAGAGGTAGAGGACAGGGAAGAACAGAAATTAAGAAAG

FIGURE 1, sheet 57 of 66

TTAAAGGAACACCCGAGTTAAAGAAGGAAGAGGTGGTCACTCCCAGAGAGGTCAATAAGGATTAGGACTA
ATAAAGGGTATTGAATTTGTACTCCAGAAAGTCAATGGCAGTTTAAGCATAGCCAGAGGGTGAAACAAAGA
TTACAAAAGGGGGCCGAGGGAGTAGAACACCAAGGAAAGACCTTCAGTAGCAATGAAAGACGAAGTGTAG
TAATTGACGTGGGAAGCAGGATCCAGAAATTCAGTTTATTAAAGTACCATACTGAGCTGAGTATAGGATA
TAAACGATAAGCTTCTTTCCACTCATGAAATCGTATCAGGTGTATTCTATAAAAAATGTGCTAAGTCATAAT
TGAGGTTTCAAGATCCTATTGGAAAACAGGGAAAGAGACAGCAATTTCTTTGAGGATGTGAGGAGGTTT
CTTGAGAGCAGGGGAAGTTGAGATGGGTCTTTGTGGATGGGAAGGAGTCTACAGAGAGGCATGGAGAAAG
GGCATCCCAGGGACCAAGCCTTCTGTGGAGCTACTGAAGATGCAGGCTGGTCTGGAACATCTCTCTG
TTTGAAGTAGTGGGGCCCAAGGAAGAGAACATGTTAGGGAGGGGAAGCCTGAGTACTGAGGTAGAGAAG
GAAGGAACCTAGCCAGAGGCAGAGACTGACAAGGCAGGTATAGGCAGAGAATGGCGCCAATGATTAAGGA
AAGAGTTGGCCTGAGAGCAGGGGGAGGGGTGAGCCCTGGACAGGAGGCAGGAGTGTAGAGGTTTATGGATC
ACGAGGATGCAGAGATCTTCCGGGAGCAAGGAAGCACGTAGTTTTCACATAGCCTTACAATGATTTTCT
AAAGTGAGACCATTTGAGAGACTGGAAATATTTAGAATGTCATAAGGAGTAAAAAGACTTAGCGCATCT
AATTTATCTTACATACTACTTTGTCCACAAAAAAGATTATGGAGAGACCTCCACCCAA
AACTCCCAAGAGTGGCATGTTAATTTACATGCTTTGGTAAACAGTGCAGTGAAGCTTTTAGCTGCTC
CTTTGAGGTATCTGTTGGTCACTTTGGATTTCACATATATGGAGTTTCTCAAAAAAGTACTCTCC
TGTGATTAAGTACACAATAGAAATAGAACCAAGCAGGTGCTCATTAAGGCTGTCTTTGCATTGTGCAAA
GGTAATGTGAGAAGCTTTCAAAGATTACGGTAGCCAAGATAGAGAAGCAACCGAAGTGTCCATCAACTG
ATGAATGGAGAAAGACATGTGGCATATATACACAACAGAGTACTAGCCAGCCTTCAAAAAGAGGAGGT
TCTGTCAATTTGTGACAATATGGATGAACCGGAAGACATTATGTTAAATGAAATAGCCAGGCACAGAAATG
ATAAGTGAAGCATATGATCTCACTTACATGTGTAATCTAAAAAATATGGACTGCATAGAGCAGAGAATAGG
ATGGTGGTTTACCAGGGCTGTTGGGGCTGAGAGAGGGCTGGGAGATGTTGGTCAAAGGACACAAATTT
TCAGTTGAACAGCAGGAATAAGTTCAAGAGAATCTATGTATAACATGGCAATATAGTTAATAAATATGT
ATTGTATACCTAAAGTGTCTAAGCGACTAGATTTTAGGTGTTCTAATTACTGAAAAGATGACAAATATG
TGAGTGAATGACATATGTTAATAGCTTGATACAGCCATTTCACAGTATACACATTTCAAACATGTTGT
ATACCATAAATATATACAATGGTTGTGAGCTAAAAAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
GGTTCCTCCCTAAGCATTCTCTTTAAACAAAATAGTTCTTTACTATCTCTATTTTATCTCTGTCTGAGC
TACAAATGGGCATTTTAAAGGTTTAGGCAGTGCTTGCTGAAAACCAACAAAGGAAGAGGGAAGAGAGG
AAGCAAGCTAACATAGAAAGTCAAGCAACATGGCGAAACCCCTCTCTCTACAAATACAAAAATAGC
TGGGCGTGGTGACGTGTGCTGTAATCCAGCTACTTGGGAGGCTGAAGCAGGAGATGCTTGAACCTA
AGAGGCGGAGGTTGCAAGTGAAGTGAAGTATACAGCTGCACTCCAGTCTGGGCGACAGAGCGAGTCCGCT
TCAGGGGTGTAGGGAAGAAAGTCTGTCAGAAAGAGATCCCTGCTCCCCCTGGGCGCTCGTAACCCCTA
AGCGTGGCTGATACCGCCCACTTACCTGAACAATTGTTCCAGAGGATGAGGAAGCTCTGTCTCTTCCA
TGCTCTTGTCTGCTTCCAAAGTGAAGACCAAGACTGAGGCGATGGCTCTGCTTCTCATCTCCATTCTA
TCACAGTAAACGATTGGTTAGCAAGGGAAGAGCTTCCCTTACTGTATACCGGTGCGCTACTCACTCA
CGTCTTTTATACCAGACTCAACTTATCAGGCAGTGAACACAGCCCTTATTGCACTCCTCCCCATTT
TTTTATCTGATTTTTTTTTTACTAATATATCATGTTTACAAATGTGGCTGCTCTCTTAAAGCTTAGAAA
ATACTTTTAAAGTAGGGGCTCGGCTCACGTCACACAACGGAATCTTTAAATGGTGTCTTTAGGAATT
TAATCTGCTTTGGTAAATGTAACCTTAAATGGTATCTTTGAGGCCAGGCACTGTGACTCACACCCATAAA
CCCAGCCCTTTGGGAGGCTGAAGTGGGAGGATCACTTGAGGCCAGGAGTTGGAGGTTGCAAGTGAACCA
CTGACCTCTGATCAGGCAAGTGAAGTCCCATCTCTAAATAAATATTTAAAAATACGTAAAAGTTA
GAAAAATTAATGCTATCTTTAAATACAGCCACGAGTATAAGAAAAATGTTCAACCTCACTAATCA
CCAGGGAATGCAATTAACCAACAGTGAAGTACTTACACCTGTGAAATGGTATATATAAAAAA
GATAAAATGACAAGTGGTATGAGGATGTGGAGACAACAGAACCCCTGAATACTGTGCTGGGAAATGTA
AATGTCTGATCTTAAAGTGAATTTCTTCAAAAACTAAAAATAGAACCAAGCAATCCCACTACTGATCATAT
CCAAAGGAAAAAAGTCAATGTCAAGAGATGTCTGCACTCCCATGTTCAATGCAGCACTGTTCAACAAC
AACCAAGATACGGAATTAACCTAAGTGTCCACCAACAAATGAATGGATAAGAAAAATGGGTTATATACA
CATACTGAAATACTATCTGGCCTTAAAAAATAAGGAAATCTGTCTATTGCAACAACATGGGTAATATAG
AGGATCTCTGTTTAAAGTGAATTAACAGGCACAGAGGACATACCAATCATCTCCCTTTAATGTGG
AATGTAAAAAAAGAACTCATAGAAGCAGAAAAATAAACAAATGGTTACCAGCGACAGGAGTTACAAAA
ATGCTGTGCAAGGACATTAAGGAGGGGACAGGAGGAATAAGTTCAAGGGATCTTTGTATATCATGG
TGACTATAGTTAATATATGTTTGAAGTCAATGAAGAGAGTGAATTTAAGTTTCTCATTACAAAAA
ATGGTATGTGAGGTAAACATGTATGTTAATTAGCTCAATTTAGCCATTCCCAATGCATATATACATGTAC
TGTATCAAAACATCATACATGTCAAAATTTT
TTTTTTTTTTTTTGGAGACGTTTGTCTTGTGTCAGCCAGGCTGGAGTGAACAGCGTGTCTCGGCTCA
CTGCAACCTCTGCCTCTGGGTTCAAGCAATTTCTCTGCCTCAGCTCCCAAGTAGCTGGGACTACAGGA
ACCTGCCACACACCTGGCAAAATTTTTGAATGCATACAATTTTACTTGTCAATTTTTTAAAAAATC
ACAGCTTGATGTTCCCTCTCATGTGTCCATGTGTTCTCATTTGTTCAATTTCCACCTATGAGTGAGAATAT
GCGGTGTTGGTTTTTTGTTCTTGCATAGTTTACTGAGAATGATGATTTTCAATTTTATCCATGTCCCT
ACAAAGGACATGAACATCATTTTTTATGGCTGCATAGTATTCATGGTGTATATGTGCCACATTTTCT
TAATCCAGTCTGATCATGTTGTTGACATTTGGGTTGGTTCCAAAGTCTTGTCTATTGTGAATGATGCGCAGT
AAACATATGTGTGATGTGCTTTATAGCAGCATGATTTATAGTCTTTGGGTATATACCCAGTAAATGGG
ATGGCTGGGTCAAATGTTATTCTAGTTCTAGATCATCACACTCTGGGAGTGTGTTGGGTTAGGGGGAG
GGGCGAGGCTAGCATTTGGGAGATATACCTAATGCTAGATGACGAGTTAGTGGGTACGGTGCACCGCAT
GGCAGATGTATGCATATGTAACCTGACCATTTGTCACATGTGACCATTAACCTAAAACTTAAAGTATAAT
AATTAAGGAAAGAAAAAATACAGCTTGTGAACATGTACTTTTTTGTGCTGTCAAAGACAAACA
ACACTATAAATCATGCTCAGAGGAATACATGTCTCAAAATTAACATCGTACTGAAGTCACTCTTTTTG
GCCCTGGTCCCTCCATTATTTTGTAGTTCTCTGTCATGAAGGGGTATAATCAGATTGCAAGTTGT
TTGATGGTTCACAGACACAGTAAAGTTGTACTCTTCTTGTACAGTTCCACCATGTCCAGCGACAC
ACTCTAGGACAAGAGGTCTGCTCTGTGTGAGAGTGGAGCTATTTAACCATCTATAAATGAGCCCAAAA
GTGCTGTTGGTTACATGTAAGTCACAAAAATGTAAGTTGCTTCAATTTTCTTCTTTTGTCTTAAGAC

FIGURE 1, sheet 58 of 66

CCATTGCAACTTATTTTTTCAAGTATGAAATGGAACCTGACGTACAGAAAAGACAACCTGAAATGTCTCAT
TCAACCACTTATAATCAAGTAGTACAAATTCCTAGTATTACTTGCACACAACCTCTTCATGTCAATTGGA
AATACTGTTTTAGAGCAAAAGAGTAATTGAAATGCGGAAAAATACAGTCTCAAAATGAGACCAGGAGTG
CCAAACAGCATGCTCTCAAACTTCAGAGAAAGTCTCAGAAATCAGGATACTACAGAGAACTCTTCAC
CTTCTCCCGTATGCCAACAAGAGTGTCTGAATTACATTCATCTCACTCTTACACAGTGAAGTAGGTTTCC
ATACACTTAAACATTAATAACATAAGAGAAGTACTTCAATCATACTTTTAAATATCAACATTAATTTTA
AAATTCCTAGGTTTCCATTCACTTTAAGATCTTTTCATTGACTTCTTTAGAGATCTGGTCTAACAAA
CTTTAACAAGAAAAATCATTTCCCTTACATCGCTCTTCACGGAACCTTCTCCACCTCTTCCTCGACTGCT
GCCAGGTAAAGACATGGAGCCTCTTCTGTTCAACTGAAAGGCACAGACAAGAATACCTGCAGTCTGCTTG
CCAGTCAACATCACCAAGATCCAGTCCAGCTGCATTTTATGTAGCTAATTTTTTACTTACTTTATCCA
AGATGCCCCACCCACAGAAGCCTGTCTCCTGGTCCGTTTCAGCTCCTCCAGCCAGATATCCGGAGTCA
TCAAACCTTAGGTCTTGTATTTTCATGGCCCCCTGTGCCCTTCATAAACGATTAAAGAAATGTGATTCA
TTGATGTGAATGCAGAGAAAGACTTAGGCATGGGCCCTTCTTGAGTCTGCAAGGGCTGACTTTTCTGTA
CGAAGATACTTCAAAGGGAGGCTTGATCCACCTGCCGTGTAATTTTATAAGCATGTCTTAAAGTAATTC
AGGTGTTAAGAATTCCTGGTGGAGTCCAGAACAGGCACACCTGAGGATTTATATCACTAGTAAACAAC
CTCAGGTGAGTATTTCCACTTTAAAAAATTCCTTTACTACAGGCCATAGACATAGATGCCACAGTCTGT
TCAGGTGAAGACACTACCCATTAATGCTCTTGTGGAGTGTGGGGCCAGCATTAACCTAAAGTCATACCC
ACCTTCCGCTCAGAAGCATCCCTCTCTGCCACTCCACCTTCTCTGATGTTACAGCTGGCAGCCTATCTC
TTTCTACTCTTCTTGTCTTGTCTTCAAATGCTGGTGAAGGTTTAGTACGGTGGCCTTCAAGTCCACCAA
CAGGTCTTCTTTCTCTGGTCAAACCTCAGAACTCTGTTTCTCCATACGTTTCGATTTCTCCCTGTGTAGAA
AGAGTGTGATGAGTGTGAGAGTCTGAGGCTCTGCAGGCCAGAGCAGCCTGCTTCTCTTGGTACAA
AGGGCTGAAGATTTTTCTTGTCTATTGGTTTACAAAGCCAGAAGCTAGTCTCTGGTACGGTATAGTCTC
TTTCATCTCTGGATACAATTCCAAAGGTCCTGTGTAGGTTTATAAGCTATAGGATGCCACAGCCTTACC
AGAGACCTTGTGAATCAGAATCTCTCGGGTGTGAGCCAAAGCATGGAACCTTGAACATGCTCCACAGT
GACTGTGGTGTGCGCCAGGTTGGAGCTACCGCTCTAGTGGCCAGCTACAGGACTGAGAGAACCAGGA
TCCACGGGGCAGGGCCCCGGAGTCTGCACACTAACCAACACTGCATAAGTGCCTTATGCAGACTTTCCAT
TGTGTCCCAAAGCATATTAATAATGCATGTCCCAGGAGACATGTTCCCATGTCTCTCCAGGAATTCCTT
AAGCAGACTAACATTTGGGAACCACTGAGAGAAAATGAAGACAGAAATCTCATTCTTTTATTATCATCTT
TGAAGGCTTCTTGGTATTACTAATTCATTTACTTTTTTTTTTAAAGCAGAGTCTATCTGCTCAATCATT
TACTTTTTCTACAGTAAAAATCTTCTACTAAATAGGAATAGGTAACAATAAAGGTACCATGTAGTATA
TCTTATTATGGGAATGATGGACAGATGATCTCAAGCTTCGTGATGTTACTTTTAACTTTATATTATTGA
TATGTGCAGATCAAATTTCTTATTCATGGCAGATATGCAGATGCCACTGTATGTCTGAGATGACTATAG
GATTATAGATCTTAGCTTTGGAAGAAACAGCAGGTGACAAATACACTAACATCTCTCTCTAGCACCT
CTGAGAGATGTCATTCAACTTGCCTGAGCTCCTGAAGTGAAGTACTGCATCAGAAGCAGCCTGCTCCTTTT
TAGAAAACCTTCATGTGTTTGAATTTGTTCCTAATATATTCCTTAGACCCCTATTCTTCTCTGTTATG
TCTTCTCTTCTGTCTGTCAGTTTATCCATCCACCCTCTACAGATAGTCATAGAAGCAATAATTTCTT
ACAAAACAGAGAAACGTAATCTGTCTCCACCTGCAAGAGAGAGTCTTAAAGGCCAGAGAAAGAGGTGAT
TTGTCCAAAGCTGCAACTAGCACACAGCAGAGCACAGGCTGGGCTTTCTCTGGCTGTACTGCACACAT
TTCTATGCCAATACCCTATTTCTGTCTGAAGTCAAAATTTCTGTGATTGCTTTTGGGAAATAACAACGT
TTGACTTAAATCTGAGTTGGCTGCATTTTGTGTTCCACTTTCAATAAACACTAACTTCAGAGGTACACT
GCCTCTGCAGAGCAATACACTACAGCCCTAGGATAACACAAACAGAGTAGAGGCACAGTCCCTACATGG
AGCAGCTGCTCTCAAAGCAGCATCTGCAGACCCCTGGCCACAGTCCATGAGGTCCAGATCATTTTCATAA
TACTAAAATGTTATTTGCCTTTTACACCATACTGACATTTGCATGATGGCATGAAAGCAATGGTGGGTA
AACTACCGGCACCTAATATGAATCAAGGCAGGAACACCAAGTATATTCGTTGTTACTGGGTTCTTCACT
TTGATGTATTTATAGTAAAAAATTCATTTTCTTAAAGATGTCCTTGATAAAAAATATGTGTTCTAGT
TTATTTGTGCTGCCGTAACAGAATATCTGTGACTGGGTAACCTATAAAGAACAGAAATTTATTTCTACA
GTTCTGGAGACTGGGAAGTCCAGGATCAAAGTATTGGTACGTTTGGTGTCTGGTGGGGCTGTTCTCTGT
TTCCAAGATGGCGCATGGAAGACTACATCTTCTTAAAGGGAGATTTGTCTGTTCTCACACGGCACAAG
CAGAAGGGCAAAAATGGGTGACTCCTCCCTCAAGCCCTTTCTGAGGGCACCTAATCCCATTCATGAG
GGAAGAGCCCTCATGACTCAATCACCTCCCAAAGGCCACACCTCCCGATCTGCTGTGTTGGTGATTAAG
TTTCAACATGAACAAAAATGTTGGGGGGAGGGAGGCAACATTTTGGGAGGAAAAACATTCAAACCA
CAGCAGTATGTATTTTAGTATCTTTGTGAAAAAATGGAAGTATGCATATGGCACTTCTGCTGCATAC
CAAGGGCCAATGGTTGAGAAAAAGCACTTATGCTACTGTTTGAGTTGTAAGCTGAACATCTCTTTTATTC
ACAGAACACTATTTTACGTGAAAAAAGCCAGCTGATAACTGTATTGCTTTCTTAAATACTAAAAGATT
TTTCTGAAGAGATAAGTGTTAATATTAACTATGATTTAAAGAAATATTAGACAATGTGTCAACATTTG
GAAGATCGGCCTAACTCAGCTAATCAGGATTATCCAAGTGATCGAGCGTGATGTATAAAATCATGCATTG
TTAGAAGATCCATTGGAAGTACAAAGTAGGCCAGTAAATTTAATGTAAAAACGTATAAAGTTTATTGAC
ATGGGTTTAGATTCCGTTTACAATTAATACATACTTTGCATCTGTTGGGTTTATGATAGTTTCAAAGA
AAAATGTCCACAATTATTCAAAGGACTATTAAATATTCCTCCATCTTCCAAGTGCATGTCTTTGAGAG
GCTGGATTGTCTCTTACTTAAACAAAACCTACATGCTTCAGCAGATCAATGCAGAAACATTTGCAG
CACCACATCTGTCCATTAGGTGGGTGCAAAAGTAATCGCGGTTTTTGTCTTACTTTTAAATGGTAAAAA
CTGGAATTACTTTTGCAGTACCTAATATTAAGCCAGATATTAAAGAGATTACAAATACATAAAACATG
TCACTCTTCTCATTACTATTGTTTTAGAAAAATATACTACTTTAAAAAATGTTACTTCTACTACAGCC
TGGGTAAACACAGTGAGACCTCATCTCTAAAAAAGAAAAATAAAATAGTTATTCTTATTAATATGTAGT
GGGTTTATTATTGCTTTAAAAACTAAATGAATGTTTTCATTTCTGAGTTTAAATTTAGTTATCAAT
GGATATAATTATATAAAACAAAGCTCTCTGGGGTCTTGATTTTTTAGCATAGGGGAAATCTAATATT
TTTACAATACTGAGTCTTCACTGAGTGGGAATTATTGATCCACCATTTAACAGCTGTGTCTCTGTC
ACTCTCTGACTTCACTGTAGATGTCAAACTACTTGCCCCAGGTCTCACAGCTGGCGAGTAGTGTAAATC
TTCTTTTGTAGTACCATTAATTTGCTTGCCTGTATCAATTTGATGGCAAGAAAAAAGCAGCTCTCTAT
TACCTTAGCATACAATCACGTTTTTTTTGTTGTTGTTTTTTTATTATAGAAATGCTACTTCAAAAACA
AAGACTGAAAAACCTAGCAACAGATGGTTAATGCAACCATTTGTAAGTGAATCCACAGGACACTGTT

FIGURE 1, sheet 59 of 66

FIGURE 1, sheet 60 of 66

TTTTTTTTTTTTTTTTTTTTTTTTTCTGAGACGGAGTTTCGCTCTTGTGCCCCAGGCTGGAGTGCAATGTC
GCGATCTCTGCTCACTGTAACCTCCGCTCCAGGTTCAAGCGATTCTCTGCTCAGCCTCCTGAATAG
CTGGGATTACAGGCAGTGCACCATGCCAGTTAATTTTTATATTTTTAGTAGAGACGGAGTTTCGCCA
TGTTGGCCAGGCTGGTCTCCAACCTCTGACCGCAGGTGATCCACCCGCTCGGCCTCCCAAAGTGCTGGG
ATTACAGGTGTGAGCCATCGTTCTGGCCAGGGACCAACAAAACCTTTATAAGAAAATGAAGCAGTATGTA
CAATAGCTGTTTATAGTGATATCTTCAAATTATGAGGAAAAGTTAAATTACATGGACATTATCTGTGCA
CCTACTATTTAAGAAGGTATATAGAATTATACAATGTATTTAGGGTAATTTTCATCAAACATTATAGAA
GCATTTAAAAATTTTGAATGAGCTTCAGTAACCAAAAATAATTACTTTAACTTACTATTCCCTGAAG
ATACATGAGTGTGGTGTAGGGAATGTAAGTGAAGTAACTGTAATAATGAAGAACTTTAATTGCCTCT
ACTATGTGACTCTATCTTTAAATAAATGCTTCTGATGTTTCAAGCCAAAATAAAAATCCAGAGGCTGGCA
AATAACAACCCCTCAATAAATATTTGCTATTGGTAAATAAAGACTTGGGACTACCTGTTTTACTTGT
TTTAATTCCTTTTTGTGGAGAAGGGGCTCTTACTGTAGTACCCAGGCAGGTCTCAAACCTCTGTGCTCAC
ATTATCCTTCTGCCTCTGCCTCCGTAATGCTGGGATTACAGGCGTGAGCCACCGTGTGGGCACCACGC
CCAGCCAGAACTATCTCTTTAATTCCTCTTCTTATCCAGCATTTAAAAATCAGTAGTATTTCTCTTT
GACAAAGAGAAAACACTGAGCTTATTTATCGGGATTCTTACTCTTTAAACAGACCACTTCTGGATTG
AAAAAAGAGATGCTTTTTGTTATAGTTACTACAGGTGCAAGATAAGTAAAAATATAATTCCACAA
ATGAGAACATACATGACATTTTACCAGATCAATGTGTCTTACATTGATTAGTTGTATAGTGCTTGGTTA
GTAGTATAACTCTAATTTATTTGACAGAATCCTGCTGTGTCACCCAGGCTGGAGTGACGTGGCGCAATCT
TGGCTCACTGCAACCTCTGCCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTTCCAAGTTGCTGGGAT
TACAGGTGTGACACCATGCTCCAGCTAAATTTGTATTTTAGTAGAGACAGGTTTCAACATGTTGGC
CAGGCTGTCTGTAACCTCTGACCTCAAGTGATCCACCCGCTTGGCCTCCCAAAGTGTGGAATATAG
GGATGAGCCACCATTTGCCAGCTCTAATTTAATCTGAATGATTAATGAATGGTGCAAACTTACATCA
GCCATTCGCTGAATCTGTGGAAGGCTTCCATATTTTTGTTGTAAGCTGTACTTGTATTACTTAACT
CTTGATGAGATTGGGTTAATCTATCTGTTTCAAAATATTTGACAGGTCTCTAGATCCATAAAGATTGA
ATGTAAAAGATTGTGCTTCTGTTCTGAATCTTCAAGCCATCTAGATAAACACAGAAATGGGAAAAATAG
AGAGAAACATCAAGATCTGATATAAGCTGATTAATTTAAATCAGAGAAAATGAAAGTTATCTCAAC
ATTTTAACTAGTCATTTCTAGTTTCGATAATGAAAACAGAACACCTCTATTGTCAATGACAGTGAAAGA
CTTCAGAGTATCTACCTGTATACTGTAACTAATAAGAAACATAAATATTTGGTCTTGGTCCACTTCTA
AAACCTTTGGAATCCTTTAATAATAGGGGAGAGAGAAGTGTCTTTATTATACATAAATAGCCCTTTCAT
ACATGTAATAACTTTCAATTTAAGATGTCAAAATAGCTCAGCCACCTAATGAAATGTTCAGCTTGATA
ATGTACTCTTCAGTAATTCATAAAAATAACTGATAGGAGAAAGAACATTCACTTACACAACATAGAA
TTCAGTCACAAGTCACTAACTAAGTGGGTTATTGAGAAATTTATATTAATCTTATTCAAAATCCTTAT
AGGAGAAAACCTTTTAGGAAAACAAAACCTTAAACCAATGCTTTTTTTTTTTTTTTTTTTTTTACCAA
TTATCACTGACAACAGCATCAAAAACCAATAAACTTAGGAATAAAATTAACAGTATACATGCAAGAAA
TGTATCTGAGGCGGGTGTGGTGCTCCTGCCTATAATTCAGCACTTTGGGAGGCTGAGGTGGGTGGAT
CACCTGAGGTCAGGAGTTCGAGACCGCTGGCCAAACATGGCAAAACCTGTCTCTACTAAAAATACAAA
AATTAGCCTGGGTGTGGTGCGGAAGCCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGGAGAACTCGCT
GAACCCAGGAGGCGGAGGCTGCAGTGAGCCATTATTGCACCCCTGCACCTCCAGCCTGGGTGACAGAGCAA
GACACCATCTCAAAAAAAGAGAAAGAGAAAGAGAAAGAGAAAGAGAAAGAGAAAGAGAAAGAGAAAG
AAATTAATCCCTAGAGAAATAAGAGATATACCATGTTCTCTGGATTGAATAGTCACTATGGTTGAGATG
TTAATCTCTCTCCAAATTTGATCTTCAAACTAATGCAATCCCACTCAAAATTCACAGACCTTTATTTA
GAAATTAACAAGCAGATTCTAAGATTTATATCGAAATACAAAGGCTTGATTAGCCAAAACAAATCTGA
AAAAGGACAAAGTTGTAGAAATGATGCTACCTGATTCAAGACTTACTGAAAGCTATAGTAATGAAGAC
TGTCATATTGGTGAAGATATAGACATATAAATTAATGAACAGAAGGGAGAGCCAGAAATAGATGCACA
CAGAAACAATTTGGATATCCCCATGGAAGAAAGAACTTTGATCCTTCAATCACACCTTATGCAACAATTA
ACATGAATGAATCATAGATCTAAGAGAGTAAGAGTTAAACTATCAAGTTACTGGAAGAAAACACAGGA
AGAAATCTTTGAACCTGGGTTAGGTAAGGATTTCTTAGAATGCAACACAAAAGAAATATCCATAAAAG
AAAATTTGATATTTGGACCTCATCAATTAATAACATTTGCTCTCTGAAAGACAGTGTTAAAGAAATG
AAAAGACAAGCCGACAGCTGGAAGAAAATATTGTAATGACATATATGTCAAAAGAAATGGTTTTCAGAA
TATTTTACAAAAAATTTACAACCTCAACAGAGACAAATGCAATTTTTTAAATGGGCAAAAAAATGAAC
AGATACTTCAAAAGGAAGTGTACAAATGACCAATAAGACATAAATAAATGCTCAAAATTTATAGTCAT
TAGAGAAAACCTGTTTAAACCACAATGAAATACCACTGCAAGTCACTAAATGGCTAAATTTAAAGGC
AGACAAATTAAGCGCTGTGAAATATGAAGCAATTGAAGTGTGTTGCTGTTGGGAAAGAAAATGA
TACAGCCATTTTGGAAAACAAATTTCTCAGTTTATTTATTTTAAACACATCGTAAAGTCAAGATCCCT
ACTTTTAGGTAATTTTATTCATTGAAATAAAATGAAACATTTGCTCTACACAAAGATTTATATATAACATT
CACAGCAGCTTGTCTCATAATAGCCTATGGTAGCAGCCTTAAGGTAGCCCTGAATGACCCCTACCTCCT
GGTATTCATACCCTTATATCAGCTTCTTGAATGACAGGCCAGACTTACTAATTTAATCTAATAAAATGT
GGCAGAAATGATGAGATGTCACCTTCCAGGTTAGATTACAAAGACTGTGGCCAGCCTGGGCAACAAAGT
GAAACCTTTTTGCAAAAATTTAGAAATTAGCCAGGCATGGTTGTGTGCGCCTGTAGTCCCACTACCTGG
GAGGCTAAGGTGGGAGGAACATTTGAACCTCAGAAGGTGGAGGCTGCAGTGAGCCGACATTGTGCCACTGC
ACTCCAGCCTGGGTGACAGAGCAAGACCTGTCTCTAAAGAAAAGAAAGAAATGTGGCTTCTGTCTTGA
CAGCTCTCTCTCACTCTCTTGGAGATTGTTTATGCTGAGGGAAGCCAGCTGCCATGGTGTGAGGCAGACT
CCTGGAGGAGCCACATGCTGTGTAAGTAGAAGCAGATCTTTTGGGCCTGTCAACAGCCACGGGAATGAG
CTTGGAGCAGATCCACCTCTCTCCCTCACACAAGTCGAGCCTTCAGATGAGCCTGCAGCCTTGTGCGAC
ACCTTGACTGCATTTCTATGAGAGACCTTGAGCCAGAGATCTTAGCTAAGCCATGCCATGGACTCCTG
ACCCACAGAACTGTGATAAAGTTTGTGTTTCAAGCTGCTAATTTATGGAGTAATATGTTACACAAA
AATAGCTAATATATAGCTCAAACTGGAAGCAACCCAAATATCTATTAAGTGGTAGATAAACAACACTACT
CATTTCCAACTTATTTCCAAAACCTGGAACACTACTTGGCAATCAATAAATAACTATGCATTAAGTGTA
ACAACCTGGATGAATCTCAAGGCATTATGTTAAGTGAACAGTGAGCCACGTAAGACTACATAGTGT
TGATTCCTCTATATGATATTCTAGAAAAGGCAAACTATAGTAATAGGAAACAGTGAGTGATCACCTAG

FIGURE 1, sheet 61 of 66

GGTTGAAGACAGGTGAAAGGGGATTGACTGCAAGAGGCAGGAGGAAACGTCTTGGGAGATGGAGATGTT
CCTTATATTGATGGCGGTGGTGGTTACACAACCTGCACTTTTATCAAACTTACCTAAGTCTACTTAAAA
TAGGTGTATTAATATTTTACTGTATGTAATATACCTCAATAAATTTGATTTAAAAACAGGCCGGGT
GTGGTGGCTCACGCTGTACTCCAGCACTTTGGGAGGTGAGGTGGGCAGATCAGCTGAGGTGAGAGT
TCAAGACCAGCCTGGCCAACATGGTGAATCCTGTCTCTACTAAAAATACAAAATAGGTGAGCGTGGTG
GCACACGCCCTGTAATCTCAGCTACTGGGGAAGCTGAGGCAGAAAGATCACTTGAACCTGGGAGGTGGAGG
TTGCGGTGAGCCAAGATCGCACCATTGCACTCCAGGCTGGGCAAAAAGAGTGAACTCCGTCTCAAAAA
AAAAAAATAGTTTTCTATTTTATATATGTCATTTATGAATGTATGTTTCAGTTATTTCTACACAG
TAGTATTTGTGGAATTATCTTTAGTTTACAAAGACCTGTTTAAACAAATGCAATCCAGCTAGAAGGGTAT
AGTGCATTTAAAAACAAACATTTAAAGCTTAGTTGAGAGTTCTGCACTTCTTTAAAGTCAATATAAAAA
CTAATACCTGAATATGCTAGAAAATGGAAGGGCATCCTAAAAGTAAGATTATGCACAAATGAGGATT
TCACATAGGACTAGTTATTTGGGACTTACTTCCCAGGAGGAGATTAGGACACATCGGGACACATAGAAAT
AAACCCGAGCCTTCTTGTCCCTACTTCTTCTCAGTTCTAGCTCAGAAAGAAAGTCTAGCAATTTAG
AATGTCCTGAAGTTTGAAGATGCTTTTACATTTTACATGTGTATCAGTAGAAGGTAGCAAAATCCAG
CTGCTTTTGCCTGAGCTCACTTTTGTACAGTTTTTTTTTTTAACTCATAATAAGCATTGAAGGAAAAA
AAAAAGCATCATTTCTCTCTTGTCTTGGTAAAGTCTCAAAAATAGTGAATCAGGGAGGTGATAAAGA
GTTTAAAAATGACAACTTTGGGGATGTGGAAGTTAATCCAAGTGGGGGAAGGCAAAAAAATCACAAG
CAAGGGGAAGAAAAAAGAAAAAATGGGTAGAAATGCAGCATCTTTACACTGTTACCCTAAGAAAAA
TATGCCAACGATTCTCAACGTCAGGGAGGTCTGAGGTGAGGAGTCACTTAGGAACACACTGTGCCATT
CCAAATAGAAAAAGGAGCTGAATCACCTTGGAGTCTGATTCTGTAAACACTGTTACCAATAAGCTT
TTCTCTAAGGGATTCTTCTCATGCGCAATAAGAGAAGGGGAACACCTGCGCAATGCAACTTCCCTA
GTACTCAGCATCCGGAAGATGTTTTCAGCCGAGGCTCAAGTGGGAAAAACACTTTCATTTGTTTGACT
TTGTAAGCCAGCATGGACAGCTGGGGCATGTGTGGAGTACCAGCAAGGACAGGAAATTTGGAATCATGGT
GTGTTAGAAGTGAAGGAACCATGGGTTTCGTTTCTATTGCTGTGTAACATAATACCACAACTTAATGG
CTTAAACAAAAACAAAGTTATCTCAGAGTTCAGAGGTCAAGGAGTCCAGGCATAGCTGAGGTGAGTCT
CCTTACAGGAGCCACAAGGATGCAGTCCGCTGCCATCTGGAGCTTGGGGTTCTCTTTGAAGATCATTCA
GGTGTGTGGCAAAATTCAGCTGTAGGACTGGGTTCCTGTTTCTTGGCTGGCTCTCATGACTCTCAGCT
CTCTGAAAAAGCCTTTGGGCCCTAGCTCCATGGCCCTCTGACAATATAGCCGCTTTCTCAAGAAGATCT
CTCTGCACCTGTCTGCAGGTGAGTAGCCCTTATCTGAAATGCTTGAGACCAGAAGCATTTTCAGATTTTG
GACTTTTTCAAATTTTGGAAATGTAAGTATTATACTTACCGTGGAGCATTCCAAATCCCAAATCCCAT
TTAGAGAGCCTTATAATCAGCTTAATCAAGTACTTATGGGAGTGACTACCCATTACCTTAATCATATAA
CGTAACCTAGTCAATGAAGGGACTATCCCATCATATTCTATCTGCCACATTCAAGTATTATCTTT
CAGGTATATACACAGAGGATGGGAATATTGGGGGCATCTTAGAATTTCTAACAAACCAAAACCATCAGC
ACTATCCTATGCACATTCTTTTTTTTTTTTGGAGCGAGTCTTGCTTTGTCGCCCAGGCTGGAGTGCAGT
GGTGCATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAG
TAGCTGGGACTACAGGCGCCCGCCACCGTGCCAGCTAATTTTTGTATTTTAGTAGAGACAGGGTTTC
ACCGTGTAGCCAGGATGCTCTCGCATCTCCTAACCTTGATGATCCGCCACATTCTTATTTTCATGGGGAGA
AACTGAGGTCCATAGAAGATATACTAAATTATCCAAAAGTCATAAAGTAGTTATCAGGACAGTAAGAGC
TGAATCCTGTCTCCAAAATCCATGTCTACTGCTTGCCACTCTCTCAAGCTTCTTCTGCCACTGACATG
GTTAGCGTAAGGTTGTATTTTCAAGAAAGGAGGAAAAAGCACCAGACAATCAGCTAAGCCACGAATCT
TTATGTAGATGCTATGAGTGGCAGAAACACTGGAAGAACACTTACCTGCACAGTGCTAGCATGGTGACT
AGTGTCTCTCAAGAGTCATAGTCAGCAGGATTGGCCAGCAATGACTGGTATTTTCTATCCAAGCCTCAG
TGCTCTTCAGAAGGTCATATATTCCTCCATCTTAAGTGTGCCCTGGGAAAGAGATGCAGGACCAAACTT
AGTCAGATGCCTTTTACTGGAGCTGAATGACTCCTAGATGAAGAGTCAATAGCTGTTAGTCAGGGGTGTG
TCAGGCCCTTGCAAGTGTCTGCTCCCATGCTGGGGCTACTTATTCACCTGCTTAGGCTATGACACTTC
TGACTTTTAAAGCTAACTCTGACCATAGGTGGAAAGGATTTAATCAGTTCTACTCCAACGTTATGGGCC
CAGCAAGTTCTGGGTAGCCTTGCAAGTATCTGGTCTCATTTTATGCTTCAATTTAAAACTGGACT
GTACTTTGTCTCTCTGTTTCAAGACCTTGCCCTACAGTTCTTCTAAGACTAGGATGCTGCCTCACTCTTGC
TAACTCAGACACAACTCAGCCAAACACAGCTCCTATTTGGAAGGAGGGTAGAGAGGATATCTTTTCCC
CGAATGACAGTCTTCTCATTTGTGTCTCCCTTACTAGACTCCTGAGACCCTGCCCTAAATTCCTCATT
ACTGGTCTTTATCCACCTGTTGGGGAGCCTGGACTTCCCAACAGTTTGCCTGGCTCTTGTCTGGTCAAC
TTCTGGATTCTTGGTCTGTCTGCCAATCAGACTTCTGCTGCCTAGCATGAAATCTGTCTCCTCA
GCACCCACACAAGCCTACCATGGCCCCAGCTTCAAGTCCAAAACTGATAATTCAACAGAACTGACTGTT
TCTGAATATATTTGTTTGTCTTAAACACCATCTCAATACCACCACATGATATGAAGCTATTACGAGTCACA
GCCATACCTTATTTCAACTGTGAGGTTTACACTCTGCTCTCTGTGATACTTGTGATACTGCTGGAAGG
AATCATCAAGTTATCCATCCATTTCTGAGCCTGTCTGGGTCTGTTCAACAATGTCCTGAACCTCAGAA
TCCAGCTCATTTAGTTTGGAAATGCCATAGATCTAACTCGTCCACATTTTCTGGAGAAGGAAATCGTAAG
TCACTTGAATGAAGAGGTATAGTTTATGGAGGCAATGCCTGGTTTTCACACAGTATTACATTTTATAA
ATGCTACTAAAAACATCACAGAAACACATCAGTGAACAGTTGTTAATTTATACCCAGCAATTTGTGATC
TAACTGAAAAACACTTTTCTGAGCTCTCCTAATACAACTGATTCATTTCACTACAAATAGCTGTA
GGGGAACAGAAAGCCTGGACATTTTGAAGATGACTGACACAAACAGGTCAATATAGCCCTCATCTCT
CAAGAGTGACAAGCAAAACATCTGTTTAAAGGGCTTGGGGAAGAGCTTGAACCTATTTACACTAGTT
CATACACACACACGACGCGCGCACACACACACACACGCTCTATTAATCTACAAATAATTTCAAG
TGAAAAAATAAAACAAAGAAAAATATCTGGGCTGGGTGCAAGTGGCTACACAAATTTGGAGGCAAGGTG
TGTGGGCTGCTTGAAGCCAGGAGTTCAAGACCAGCTGGACAACACAGGGAACACCGTCTCTACAAAC
TAGCCAGGTGATGAGGCCACACCTGCAGTCTCATCTACTGGGAGCTGAGGTGGGAGGATCAATTGA
GCCAGGAGGTCAAGGCTGAAGTGAAGTTTGTATCACACCACTGCACTCCAGCTTGGGTGACAGGGTGAGA
CCCTATCTCAAAAATTTAAAAAAGAAAAAATATCTGCTGACTTGGGATGAATGCAGAGGCAAGAA
GCTCTAGAACATGTATTAGGAGCACTGCTTTTACTCAAGAAACCAATAGGTTGGATTCAATCTGAA
CTTCGCTGGGCAGAGGAAATTTCAAGGTAAATATTTCAATTTCTAATGTTTGTCTAAGAACATTTT
TCCCTATCTTGAGGACTAGGAAATCTAATTTGTTAAATTAGGTTTCTGCTTAAAGATTGTCCAATAG

FIGURE 1, sheet 62 of 66

[illegible]

FIGURE 1, sheet 63 of 66

GACAAGGCGCCATGTCTACTAAAGGAGTAATGTAACATACTACTTAAGAGTGGTCTGAGGCCCTTGTTTC
ACCAAACACACTGGAACATAGTTGAAAGAAGGCTGCTTGGTCCAGACTGGCCTACCTTCCAGCCTTGTT
TCAACTCTGTTTCTCTGCTCTCCAGCCACACTGATCTTCTCCCTTGGTCTGCCCATACCATGCCAGGG
CCTTTGCTATGCCTCTCTCTCTCTCCCCAGACCGCTCCCCAAACCCAGCCACTGAGTTATCTCTACCC
CAAGGACTTTGGATACAAGACTGTGGCCCTGTACCTGCCACATTCACATAATTCATTCTCTACTTACCTCA
AATTGTTCTGACTTTTCTGGGTGATCCTGGAATGCCATATTTTGAATGAAGTTGTGGTCTGTTGAAAGA
AATTTCTCAAAGCAATATCTCTTTTGTGAAGGAATGTCTTTCTGGATTTTCAGTCTGCACCAATCTCTT
ATTTTTCTGAACCTTTCTGAAGAAGCCTAAAGAGAACGTCAAAATATAATTTGTTTCTTTATCCTGCTCTT
CTATGAATAAAATGAACAGTTTATTTGCAACAATTAATGAAATGCCCTGAATAGCTACTAAAGGATGGTT
ATTTCTCTTAAGAAAAAAGTAACAATTTTCAATAATGGATGTACCACATATAAAAAACAGGTACAAAATC
TACCACCTAATCAAAACCTCTCCAAATCTTTCGCCTCAAATACTCTCTTTTCACACTTTTACATTGTAAC
TGACATTTCTGTCTCTCTTTTCTCCACGTAATCCTTGAGCTCACATGAAATGACTTAGAGGTGTGAA
TGGAAATCACAGTGGCTCTTGGGGACAGACAATCCCACTGGGCTTCTCTCTTAAGCTGACCCATTTTG
CTATGGATGCAGCAATATCAGAAGAGGCCTGAAGTGGGTAAAATCTTTCTGAGGGTTATTTGGTAAG
TATCTATGATATGTGATATAATAATATATACCTTGATCTCTGCTGTAGTTCTGAGACAGAGCTCTTAA
TACCTTGTAGATAGGAGTGTAGCTAGGAGAGTCTTTTGTCTAATACTTGATTTTTGACCAGTTCCCTG
ACACAGAGCTCTCAAGCCCTTGTAAATTTCTGAGTGATAGGAGCATCTTTAGTTCTAAGAGGCAAGCT
TAGGTGGGATCTGAGTAGCCTCAGGATGAGGGCTGGTTGCCAGGGGAACCAACTATGTGATTAAGAGT
TGGAACCTTTCAGTACCACCCCTACCTCCAACACACACCCCAACCTCTGGGGGAGGGGACAGAAGGTGAA
GGTTGAGTTGATCGCCAATGGCCAATTACATAATCAATCATGACTACATAATGAAGTCTCCATAAAAAA
CCCAAGGACGAGGCTCAGAGAGCTTCTGGATTGCTGAAAGCCTGGGGGTTCACCACCTAGAGAGAGCA
GGGAAGCCCCAGGCCCTTCTATACCATGCCTTAGGCACCTCTCCATCTGGCTGTTTATCTGTATCCT
TCATTATATCTTTATTAATAAACTGGTAACATGAGTAAAGTGTCTTCTGAGTTCTGTGAGCCACTCT
AGCAAAATTAATGAACCAAGAAAGGTATCAAAGGATCCCTTGATTATAGCCTATCAGCCAGAAGTGTA
CCAGCGGGGCGCAGTGGCTCAGCCTGTAAATCCAGCACTGTGGGAGGCCGAGGCGGGCAGATGACCTGA
AGTCAGGCGTTCGAGACCACCTGGGCAACATGGTGAACCCCTCCTCTACTAAAAATACAAAGAATTAG
CCGGGTGTGGTGGCAGATGCTGTATCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCT
AGGAAGCCGAGTTTGCAGTGAGCCGAGATCATGCTATTGTAATCCAGCCTAGGCGACAGAGCAAGACTCT
GTCTCAAAAAAAGGAGAGTATAGGTAGCAACCTACTACTGATGATGGCATCTGAAGTAGAGG
TCCTCTTGTGGGATGGATTGAGCCCCAGCCTGTGTATCTGATGCTGTCTCCGGGTGGATAGTGTGAGA
AATGAATGGTGTCTGCTGGAGAATGCCTGATGTGTGGGAACCCCAATAACCAACATGGTGTGAGAAG
TGCTTTGTGATGGTGTGTAAGGGTAGAGAGAAAAACAAGTTTGCTTTTCTCAGAGCACCTCTAGC
CATAAACTACTATATTTCTTTGACCCAGTGATTCTACTTCTCACTATCTTCTCAATGAATTAGTCACAG
ATGAAAAATATAGATTCTGGCATAAGAATATTCACCTGCAGTGTTGTTATGAAAATAAAAAAGTAATTT
AAAGATTCTTATAGGGGCTTGGTTTAAACATATAGGCATATCTTCATGGTAGAATATATACAGCTA
GTTACATTTTTTATTTTATTTTGGAGATGGACGTTTCAGGCTGGAGTGCAATGGCATGATCTCAACTC
ACTGCAACCTCTACCTCTTGGGTTCAAGTGATTCTTCTCCCTCAGCCTCCTGAGTAGCTGGGATTAGG
CGTGCGCCACCATGCCCGCTAATTTTTTGTATTTTATAGTAGAGCGGGGTTTACCATGTTGACCAGGC
CAGTCTCGAATCCTGACCTCAGGTGATCCATCCACCTTGGCCTCCCAAAGTCTGGGATTACAGGCGTG
AGCCACCATGCCCGCCACAGCTAGTTACATTTTAAAGAACATTTAATGGCATAGGAAGACAAACATGA
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TTATATTAATTTTGTAAATTTTACATTTTCTGAATTTCTTTTTTTTGGAGACAGAGTCTCACTCTGTCA
CCCAGGCTGGAGTGCAGTGGCAGATCTCGGCTCACTGCAAGCTCTGCCTCTGCGGTTACGCCATTCTC
CTGCTCAGCCTCCCGAGTAGCTGGCAGTACAAGCTCCTGCCACACACCCGCTGATTTTTTGTATTTT
TAGTAGAGACGGGTTTACCACGTTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCTGCCCGCT
CAGCTCCCAAAGTGCTGGGATTACAGGAGTGAGCCACCCGCTCGGCTGAAATTTCTATAATGAATAT
GCATTACTAACTAGAAAAAGGGCAAAACAAACAAACAAACAAACAAACAAACAAATGATAAAAAAGGAA
ATTGGAAGGACATTACCCCTCAATTAATACAGGATGGAAAATGTGTGCTTAATATAGTTACTAATCTGT
TCCATCCCTTTTATACCTATCAGTGTGTCTCACCTCAATTCTATTGTATCATTTGCCATTATTCTATA
CTTTTAGATTTTCTAAATTTTGGCCATAATTTGTCAAGCACATGTCCTTAATAGTTTTTCATAAACTCTA
CTTGTGTCATCGTTCTTTTATAGAGTAATTTCTTGAAATGCTGGAACAGTTTCCACAGCCCTGAGCTT
TCAGGAACATTCTGGATACTTCTGATGCGCTGAAGAAGTAGAGTCAAGACGCTGTTGCTTCTCCACGT
TCTCTCATATTGGCATAAACAGTCTAGCAGCTCAGAGAGTTCCTCTGTGGTGGCTGCTCTTTTGT
GGAAATTTTCAAGGAGTTCTTCTGAAGATTATCTAAATAATGGCTCTCGTTCAATCTAATTCAAAAA
CAAAAAGAACTAAAAATAAGTAAAAATATACAATTACATTTCAAGACCTGAAGTAGCCATAATTTTGTATG
CTCTCTCTTCAAGGGTTCTTAGTGCCATATCCTAGTCTGTTTTCTATAGCTGGGAATATTAATCCTCT
GCTATCAGAAATCCCATATGCCCAGCTATTGCTCATGTAGATGTGTGACTGAAATGGAGTACTGCTGTGG
TGGGCTGAAGGAAATGCTGTTGAATATCTTCATAAAATAATGATTTCTCCTTCAGATTTAGATGGATAA
AGCAACATTTCTCTGAGATAAGCACATGAGCTCCACCAACTGCTTTCACTAAGTGAAGAGGTTGGG
AACTATTGGATATGGAATTTTTTCTGCTGGTCTCTTTCTTTCACTTCCAATCCCTGTATGCTAAAAA
GTAAGGCCAGCAGGTTCTCATTACCTGACACACAACAAAGGTAAGCAGCCAGAATTACCAAAACAGTG
AAGTATTTATCAATAGTGGTGTACACAGAACTCAGAAATACATAACCTATTACATCAGATATCTAGAAAC
TGGGAGTTCCACAGCCCTGAATCACTAAGATGTAGAAAAAGTCTCAAGGCCCTGAATCAGTCA
TTCTTACGCCCTCCCTCGAATCCCTGGCCACCCCTCGGCTGCAGTACTATTATCAATCCTGCCTC
AGTGATGGTTAATCTCTGCTCCACGTTCAAACCTATTATGATCTTGCAGTCAATACAGGAT
ATCACTCCAGTCACTATGTTTATGATATCATGCTAACTGAAATGGTGGAGGCTGAATGTCAGTCA
CATGCCAGAGGCTGAGAAACAAAGCCTGTGAAAAATCAGGAGCCCAAGTATCAGGGGCTAGTGGCCTGG
GGCATGCCAGGACTTCTCCTTAAGATAAAGGTCAAGTTGTTCAATCTTACAACCTTACCCTAAAAAAG
AGACACAGCACTGAACGAGCTTTTGGGGCTAGGAGGCAAGTATGCTATCTTGGGATTACTGCTCAG
ATGCAATTTATCAGAATGCTGCCAATGTGAGAGGGGCTGGGAAAAAGCAGCCAGCAGGGTTGGGCTG

FIGURE 1, sheet 64 of 66

1987	1986	1985	1984	1983	1982
1981	1980	1979	1978	1977	1976
1975	1974	1973	1972	1971	1970
1969	1968	1967	1966	1965	1964
1963	1962	1961	1960	1959	1958
1957	1956	1955	1954	1953	1952
1951	1950	1949	1948	1947	1946
1945	1944	1943	1942	1941	1940
1939	1938	1937	1936	1935	1934
1933	1932	1931	1930	1929	1928
1927	1926	1925	1924	1923	1922
1921	1920	1919	1918	1917	1916
1915	1914	1913	1912	1911	1910
1909	1908	1907	1906	1905	1904
1903	1902	1901	1900	1899	1898
1897	1896	1895	1894	1893	1892
1891	1890	1889	1888	1887	1886
1885	1884	1883	1882	1881	1880
1879	1878	1877	1876	1875	1874
1873	1872	1871	1870	1869	1868
1867	1866	1865	1864	1863	1862
1861	1860	1859	1858	1857	1856
1855	1854	1853	1852	1851	1850
1849	1848	1847	1846	1845	1844
1843	1842	1841	1840	1839	1838
1837	1836	1835	1834	1833	1832
1831	1830	1829	1828	1827	1826
1825	1824	1823	1822	1821	1820
1819	1818	1817	1816	1815	1814
1813	1812	1811	1810	1809	1808
1807	1806	1805	1804	1803	1802
1801	1800	1799	1798	1797	1796
1795	1794	1793	1792	1791	1790
1789	1788	1787	1786	1785	1784
1783	1782	1781	1780	1779	1778
1777	1776	1775	1774	1773	1772
1771	1770	1769	1768	1767	1766
1765	1764	1763	1762	1761	1760
1759	1758	1757	1756	1755	1754
1753	1752	1751	1750	1749	1748
1747	1746	1745	1744	1743	1742
1741	1740	1739	1738	1737	1736
1735	1734	1733	1732	1731	1730
1729	1728	1727	1726	1725	1724
1723	1722	1721	1720	1719	1718
1717	1716	1715	1714	1713	1712
1711	1710	1709	1708	1707	1706
1705	1704	1703	1702	1701	1700
1699	1698	1697	1696	1695	1694
1693	1692	1691	1690	1689	1688
1687	1686	1685	1684	1683	1682
1681	1680	1679	1678	1677	1676
1675	1674	1673	1672	1671	1670
1669	1668	1667	1666	1665	1664
1663	1662	1661	1660	1659	1658
1657	1656	1655	1654	1653	1652
1651	1650	1649	1648	1647	1646
1645	1644	1643	1642	1641	1640
1639	1638	1637	1636	1635	1634
1633	1632	1631	1630	1629	1628
1627	1626	1625	1624	1623	1622
1621	1620	1619	1618	1617	1616
1615	1614	1613	1612	1611	1610
1609	1608	1607	1606	1605	1604
1603	1602	1601	1600	1599	1598
1597	1596	1595	1594	1593	1592
1591	1590	1589	1588	1587	1586
1585	1584	1583	1582	1581	1580
1579	1578	1577	1576	1575	1574
1573	1572				

AAGTACAACAGCCCTCATTATCTGGGTTTCTCCTTTCAGGTTTCAGTTACTTGTGATTAAACACGGTCC
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CTTCTTGGTGATCAGATCAACTGTTTGGTATCAAATGCTTGTGCTCCAGATGAATAGTAGCCCAACGCT
ACCTACCATGGCTATATCATTTCATTTCACTCACTTCATTACCTCACTTCATTTCACTCACCTCAC
TTCATTTCACTACCCAGGCATTGTATAGTCTCATGTCATTACAAGAAGGGTGAACAGTACAATGACAT
ATTTTGAGAGAAAGAGACCACATTCACCCAACTTTTATTACAGCATATGTTATAATTTCTCTGTTATTG
TTGTTGACCTCTGACTGCACCTTAATTTATAAATTAACTTTATCATAGGCGGTACAGGAAAAAATTA
TATACATAGAGTTTCAGTGTATTTCACAGTCTCAAGCATCCACTGGGTGTCTTGGAACATATCCCCTGTGG
ATAAAGGGGGACTACTGTACATTTTGTATTTTTAAAGTCTCACATTTTACTAAGTAGTTCCTTTGCACAA
TACTTCTTATATCAACCACCAACACATATTGAAAGGTTTTTCTTGGTTCGCTTTTGTGTTTGGGGAAATG
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TGCAGTAAGCGATCAGTGGACAACAAGGCTCTGTCACTGATCCAGCAGTATCCCTCAAAGTCACATGAGA
GGTGATGCTTTAGAAAAGCCATCAGTGAGGACAGGATGCTATTGGGGGATGACTGTCTGTGAACCTGATT
AATTAATCTCTCAGTACCCTGCTTCATTTCTTCTTCTGCTTTTAAAGCTTCAATATATTACATAA
GGCCAGGCGCAGTGGCTCGCGCCTATAATCCAGCACTTTGAAAGGCCGAGGCTGGAGGATGGCTTGAAG
TCAGGAGTTCAAGAGCAGCCTGGTCAACATTGTGAAACCCCGTCTCTACTAAAAATACAAAAATCAGCTG
GGCATGGTGGCGGGCACTGTAATCCAGCTACTCAGGAGGCCGAGGCAGGAGAAATCAAATCACTTGAAGC
CGGGAGGTAGAAGCTGCAGTGAGCCAAGACTGCATGACTGCACTCCAGCCTGGGCAAGACTGTGTCTCAA
ATATATATAAAACATTACTCTCTGGCTTTTCGATTTGAGGAATATTCATGGATATTTAACTCACTGTGAAG
ATTTCTACGCGTCTTAACAGGACCACATTCTCTGCTGCCTCTGCCAGTTTGTCTGCAATTTTTTGCACA
CAGACTTACTGGCTAATTGCCAATACTATTACCTTGCTCTGTTCCAAGCGCTCTAAAGCTTCTCTGTAAG
ACAGTGGCAACGAGGACATGGACTGTCCAAGAACTGTCTCCATTTGCTGAGGTTAGTGTAATATCCCTC
TTCCATTTTTCTATAGCATTTGTAATTCTCAAGATACCTAGTGAGTCACAGTTAGAAAAAAGTGGTATT
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GGACCTGCATATGGGTTTTAAATGCAAACCTTGAAAAGGAAGCAAGGGCCGTCTCTAAAATGAAGATTTTT
TTTTTTTAAAGTTCAGTTAAGTAAAAGTGCATTTCTCAAACACACTGATGAGCTGTAATTTGGTA
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TAAACAATTCATCGTATACAATATTATAGAGTAATTACATTACTTTTAGAAAGTATTTGTTACAATCAA
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TTCAATTTCTTTGATTCTTACTGAAAGGTGGGGACAGACCATAAAGCTGGGAGCCAATCCAGGATGG
GTGCTAATAGAAAACCTCCTCTGCAAGAATATTGTAACACATATAACTATAAAGGACCCTCTCTAAA
ATATAGAATTC

FIGURE 1, sheet 66 of 66

Exon	Reference Position	SNP	AA change	Frequency in Blood	Frequency in Liverpool - Tumor	number of individuals with change in heterozygosity ¹	number of individuals with a loss of heterozygosity ²	In which populations observed populations ³
Exon -7	49671	A to G ATTCCTATATTCT	None	0/92 0%	0/96 0%	0	0	3 (C, S)
Intron -7	49904	C to A GTCCACACATATGG	None	0/92 0%	0/96 0%	0	0	3 (C, S)
Intron -7 *	49934	A to G ATGTACATACCAT	None	0/92 0%	0/94 0%	0	0	3 (C)
Intron -7	49994	A to T CCCTTGAGTTACT	None	90/92 98%	94/96 98%	0	0	2
Exon -5	83980	G to A CTGGAGGTTGAAG	None	0/42 0%	0/52 0%	0	0	3 (S)
Intron -5	85938	G to A CTCTCCGTAGAAA	None	26/88 30%	27/94 29%	4	1	2, 3 (N, C, I, A)
Exon -2	89837	C to T TTCCTACGGAAAA	None	16/96 17%	13/88 15%	7	1	2, 3 (C, I, A, S)
Exon -2 *	89889	T to C CATTGTGTAACG	None	1/94 1%	0/92 0%	1	0	2
Intron -2 *	90090	T to C CTTTGCTAGACAG	None	1/94 1%	0/94 0%	1	0	2
Intron 3	126711	A to G AAGTCAAGCTGCT	None	0/96 0%	2/96 2%	2	0	2
Exon 5	130189	G to A CCAAGTCCGGCTC	Val to Glu	2/96 2%	1/96 1%	1	0	1,2,3 (C), 4(As), public variation
Intron 7	154138	G to A AGAGCCGGGGAA G	None	3/93 3%	3/96 3%	2	0	2
Intron 7	154202	A to G GTCCCCATAGTAA	None	3/96 3%	2/96 2%	1	0	2, 3 (C, A, S), 4 (As)
Exon 8	154431	G to A GTCACAGGCTGAA	3' UTR	32/96 33%	35/96 36%	2	2	1, 2, 3 (N, I, A), 4 (all)
Exon 9	160052	A to G ACTTCAATTTCCC	3' UTR	38/96 40%	35/96 36%	4	1	1, 2, 3 (N, I, A, S), 4 (all)
Exon 9	160089	A to G AAAAATAATTTTA	3' UTR	14/96 15%	16/96 17%	4	3	1, 2, 3 (N, I, A, S)
Exon 9	160165	A to G CAATCCAAACAATT	3' UTR	9/96 9%	8/96 8%	1	0	1, 2, 3 (A), 4 (all)

FIGURE 2(a), sheet 1 of 2

Exon	Reference Position	SNP	AA change	Frequency in Liverpool – Blood	Frequency in Liverpool – Tumor	number of individuals with change in heterozygosity ¹	number of individuals with a loss of heterozygosity ²	In which populations observed populations ³
Exon 9	160376	C to G GCTGTGCCTGCCA	3' UTR	10/96 10%	9/96 9%	1	0	1, 2, 3 (N,C,A)
Exon 9	160602	G to C AGATCAGTTGAGG	3' UTR	1/96 1%	1/96 1%	0	0	2
Exon 10 *	303073	T to C CTATAGTAATAGG	3' UTR	0/74 0%	0/94 0%	0	0	3(A)
Exon 10	302972	G to T CTGGATGAATCTC	3' UTR	6/76 8%	6/92 7%	1	0	2,3(N,I,A,S)
Exon 10	302848	A to G AACTGGAAGCAAC	3' UTR	5/72 7%	7/78 9%	1	0	2, 3(N)
Exon 10	302689	T to C CTTGACTGCATTC	3' UTR	9/86 10%	11/94 12%	3	0	2,3(all)
Exon 10	302671	C to T TGCAGCCCTTTGTC	3' UTR	0/86 0%	0/94 0%	0	0	3(A)
Exon 10	302556	A to G GCCCACATGTCTG	Met to Val	14/84 17%	14/94 15%	3	0	2,3(all)

* SNP's observed in 48 breast cancer patients. Genomic DNA was isolated from blood (B; 96 chromosomes) and matched tumor tissue (T; 96 chromosomes).

1. For some heterozygosity calculations, individuals 47 and 48 were excluded because it is believed that the blood or the tumor sample was switched. These excluded cases were when both individuals showed a change in heterozygosity.
2. Loss of heterozygosity calculation includes any case where a heterozygous blood genotype became a homozygous genotype of the minor allele in the same individual's tumor sample. A change from a homozygous genotype of the major allele in the blood sample into a homozygous genotype of the minor allele in the tumor sample would also be counted
3. Populations analyzed:
 - 1- cDNA (prostate, Clontech)
 - 2- 2-Liverpool clinical
 - 3- 3- Coriell (N, North Europ.; C, Chinese; I, Indo-Pak; A, Afric-Amer; S, SW Native Amer)
 - 4- 4-CEPH family (Ca, Caucasian, Af, Afric-Amer, As, Asian)

FIGURE 2(a), sheet 2 of 2

Exon	Contig64 Position	SNP	Coriell Frequency/20 chromosomes						Frequency in Liverpool	
			N. Eur	Chi	In-Pk	Af-Am	SW-NA	Blood	Tumor	
Intron 3	126711	AAG	0	0	0	0	0	0	2.1%	
5	130189	TAC	0	16.6%	0	0	0	2.3%	1.1%	
Intron 7	154202	CGT	0	27.4%	0	7.2%	12.3%	3.5%	2.2%	
8	154431	AAG	26.4%	0	28.2%	47.6%	0	31.9%	36.5%	
9	160052	AGT	27.6%	0	45.4%	23.25%	35.6%	39.6%	36.5%	
9	160089	TGA	13.2%	0	14%	14.4%	28.4%	14.6%	16.7%	
9	160165	CGA	0	0	0	10.4%	0	9.4%	8.3%	
9	160376	GGC	10%	16.7%	0	27.8	0	10.4%	9.4%	

FIGURE 2(b)

Exon	Reference Number	SNP	Coriell Frequency					Frequency in Liverpool		
			N. Eur	Chi	In-Pak	Af. Amer	SW NA	Blood	Tumor	
Exon -7	49671	TAT	0/18 0%	1/20 5%	0/20 0%	0/20 0%	3/20 15%	0/92 0%	0/96 0%	
Intron -6	49904	ACA	0/18 0%	1/20 5%	0/20 0%	0/20 0%	3/20 15%	0/92 0%	0/96 0%	
Intron -6	49934	CAT	0/18 0%	1/20 5%	0/20 0%	0/20 0%	0/20 0%	0/92 0%	0/94 0%	
Intron -6	49994	GAG	18/18 100%	20/20 100%	20/20 100%	20/20 100%	20/20 100%	90/92 98%	94/96 98%	
Exon -5	83980	GGT	0/20 0%	0/20 0%	0/20 0%	0/20 0%	5/20 25%	0/42 0%	0/52 0%	
Intron -4	85938	CGT	6/20 30%	3/20 15%	5/20 25%	9/20 45%	0/20 0%	26/88 30%	27/94 29%	
Exon -2	89837	ACG	0/20 0%	1/20 5%	1/20 5%	2/20 10%	3/20 15%	16/96 17%	13/88 15%	
Exon -2	89889	GTT	0/20 0%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	1/94 1%	0/92 0%	
Intron -1	90090	CTA	0/20 0%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	1/94 1%	0/94 0%	
Exon 9	160165	CAA	0/18 0%	0/11 0%	0/18 0%	1/14 7%	0/12 0%	9/96 9%	8/96 8%	
Exon 9	160376	GCC	2/18 11%	2/12 17%	0/18 0%	5/18 28%	0/16 0%	10/96 10%	9/96 9%	
Exon 9	160602	AGT	0/18 0%	0/20 0%	0/20 0%	0/20 0%	0/14 0%	1/96 1%	1/96 1%	
Exon 10	303073	GTA	0/18 0%	0/18 0%	0/20 0%	1/20 5%	0/18 0%	0/74 0%	0/94 0%	
Exon 10	302972	TGA	1/18 6%	0/18 0%	2/20 10%	1/20 5%	3/20 15%	6/76 8%	6/92 7%	
Exon 10	302848	GAA	2/18 11%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	5/72 7%	7/78 9%	
Exon 10	302689	CTG	3/18 17%	3/20 15%	3/20 15%	9/20 45%	3/20 15%	9/86 10%	11/94 12%	
Exon 10	302671	CCT	0/18 0%	0/20 0%	0/20 0%	3/20 15%	0/20 0%	0/86 0%	0/94 0%	
Exon 10	302556	CAT	3/18 17%	5/20 25%	4/20 20%	8/20 40%	3/20 15%	14/84 17%	14/94 15%	

FIGURE 2(c)

Contig64 position	Exon	SNP	Caucasian	Af-Am	Asian
130189	5	G to A CCAAAGTGGGCTC	0	0	37.5%
152603 (only seen in CEPH)	Intron 7	T to C ATGGGATTATGTG	0	37.5%	0
154202	Intron 7	A to G GTCCCCATAGTAA	0	0	37.5%
154431	8	G to A GTCACAGGCTGAA	12.5%	12.5%	12.5%
160052	9	A to G ACTTCAATTTCCTC	37.5%	12.5%	37.5%
160165	9	A to G CAATCCAACAATT	25.0%	25.0%	12.5%

FIGURE 2(d)

Exon -7 Forward	ER2-1F	M13f TGTAACACGACGGCCAGT	CACGCGGGCTTCATAAGCTAGAT
Exon -7 Reverse	ER2-2R	M13r CAGGAAACAGCTATGACC	GGTTGCACCACTCTGTAAATATGCTAAA
Exon -5 Forward	ER2-3F	M13f TGTAACACGACGGCCAGT	GGCACATAGTAAGCAAATCATAAATGCTGA
Exon -5 Reverse	ER2-3R	M13r CAGGAAACAGCTATGACC	AACCCAGGGCACTGATAGAAAGTGAA
Exon -4 Forward	ER2-4F	M13f TGTAACACGACGGCCAGT	GTCGAAAGGGCACACAACCTAGGAAG
Exon -4 Reverse	ER2-4R	M13r CAGGAAACAGCTATGACC	GACAAATTAATGGTGGCAATCAGGA
Exon -2 Forward	ER2-6F	M13f TGTAACACGACGGCCAGT	CTTCCTCATCTTCTCACCCCACC
Exon -2 Reverse	ER2-6R	M13r CAGGAAACAGCTATGACC	TTCTCTCTTTTCCCTCCACTTTTTC
Exon4 Forward	ESR2ix4f35755	M13f TGTAACACGACGGCCAGT	CTGGAAATGGAGACCTAAAAAGTTTCTGAA
Exon4 Reverse	ESR2ix4r36210	M13r CAGGAAACAGCTATGACC	GATCATGTGTACCAACTCCTCTGTGCG
Exon5 Forward	ESR2ix5f39066	M13f TGTAACACGACGGCCAGT	GGTCGTAGTGTGTGACAAACTCTAAATGAA
Exon5 Reverse	ESR2ix5r39580	M13r CAGGAAACAGCTATGACC	ATGATGCTATCATCCTCTGCCCTG
Exon8 Forward	ESR2ix8f63153	M13f TGTAACACGACGGCCAGT	GTGGGACACAGAGGCTGACAAAGAC
Exon8 Reverse	ESR2ix8r63651	M13r CAGGAAACAGCTATGACC	GGGACCACACAGCAGAAAGATGAA
Exon 9 Forward	2ix9f69194		TAAACATTTTCACTTCAGTTTCCCTCTGG
Exon Reverse	2ix9r69643		GTCCAGTAGCATTTTACTTTCTACCTAAACAAAG
Exon 9 Forward	2ix9f69494		GAGAAAGGGGAGGAGGGGACTGGGATTG
Exon 9 Reverse	2ix9r70066		TGTAGGGAAATGGCAAAGGCAGCATGGC
Exon 10 Forward	ER2_10f_146946		GACAGCTCTCTCTCACCTCTCTTGGAGAT
Exon 10 Reverse	ER2_10r_147971		CTTCTGCCTCAGCTTCCCCAGTA

FIGURE 2(e)

Exon 10	ER2_10sf1	AGCTCTCTCTCACTCTCTTG
Exon 10	ER2_10sf2	CAAACACTCATTTCCAAAC
Exon 10	ER2_10sf3	TACACAACTGCACCTTTTATC
Exon 10	ER2_10r_147971	GACAGCTCTCTCTCACTCTCTTGAGAT
Exon 10	ER2_10sr1	GTAGCAGTTAGGTAAGTTTGA

FIGURE 2(f)

cDNA Sequence for the Estrogen Receptor Beta (GenBank ACCESSION
AF051427.1 GI:2970563) (SEQ ID NO:2)

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tttcagtttc tccagctgct ggcttttttg acacccactc ccccgccagg aggcagttgc 61
aagcgcgagg gctgcgagaa ataactgcct cttgaaactt gcagggcgaa gagcagggcg 121
cgagcgctgg gccggggagg gaccacccga gctgcgacgg gctctggggc tgcggggcag 181
ggctggcgcc cggagcctga gctgcaggag gtgcgctcgc tttcctcaac aggtggcggc 241
ggggcgcgcg ccgggagacc cccctaatac cgggaaaagc acgtgtccgc attttagaga 301
aggcaaggcc ggtgtgttta tctgcaagcc attatacttg cccacgaatc tttgagaaca 361
ttataatgac ctttgtgcct cttcttgcaa ggtgttttct cagctgttat ctcaagacat 421
ggatataaaa aactcaccat ctgaccttaa ttctccttcc tcctacaact gcagtcaatc 481
catcttacct ctggagcacg gctccatata cataccttcc tcctatgtag acagccacca 541
tgaatatcca gccatgacat tctatagccc tgctgtgatg aattacagca ttcccagcaa 601
tgtaactaac ttggaagggt ggctgtgtcg gcagaccaca agcccaaagtg tgtgtgtggc 661
aacacctggg cacctttctc ctttagtggt ccacgcccag ttatcacatc tgtatgcgga 721
acctcaaaag agtccctggt gtgaagcaag atcgctagaa cacaccttac ctgtaaacag 781
agagacactg aaaaggaagg ttagtgggaa ccgttgccgc agccctgtta ctggtccagg 841
ttcaaagagg gatgctcact tctgcgctgt ctgcagcgat tacgcatcgg gatataccta 901
tggagtctgg tcgtgtgaag gatgtaaggc ctttttttaa agaagcattc aaggacataa 961
tgattatatt tgtccagcta caaatcagtg tacaatcgat aaaaaccggc gcaagagctg 1021
ccaggcctgc cgacttcgga agtggttacga agtggaatg gtgaagtgtg gctcccggag 1081
agagagatgt gggtagcgcc ttgtgcggag acagagaagt gccgacgagc agctgcactg 1141
tgccggcaag gccaaagaaa gtggcgccca cgcgccccga gtgcgggagc tgctgctgga 1201
cgccctgagc ccgagcagc tagtgctcac cctcctggag gctgagccgc cccatgtgct 1261
gatcagccgc ccagtgccgc ccttcaccga ggctccatg atgatgtccc tgaccaagtt 1321
ggccgacaag gagttggtac acatgatcag ctgggccaag aagattcccg gctttgtgga 1381
gctcagcctg ttcgaccaag tgcggtctct ggagagctgt tggatggagg tgttaatgat 1441
ggggtgatg tggcgctcaa ttgaccaccc cggaagctc atctttgtc cagatcttgt 1501
tctggacagg gatgagggga aatgcgtaga aggaattctg gaaatcttg acatgctcct 1561
ggcaactact tcaaggtttc gagagttaa actccaacac aaagaatata tctgtgtcaa 1621
ggccatgata ctgctcaatt ccagtatgta cctcctggtc acagcgacct aggatgctga 1681
cagcagccgg aagctggctc acttgctgaa cgccgtgacc gatgctttgg tttgggtgat 1741
tgccaagagc ggcattcctc ccagcagca atccatgcgc ctggctaacc tcctgatgct 1801
cctgtccac gtcaggcatg cgagtaacaa gggcatggaa catctgctca acatgaagtg 1861
caaaaatgtg gtcccagttg atgacctgct gctggagatg ctgaatgcc acgtgcttcg 1921
cggttgcaag tcctccatca cgggttccga gtgcagcccg gcagaggaca gtaaaagcaa 1981
agagggctcc cagaaccac agtctcagtg a

```

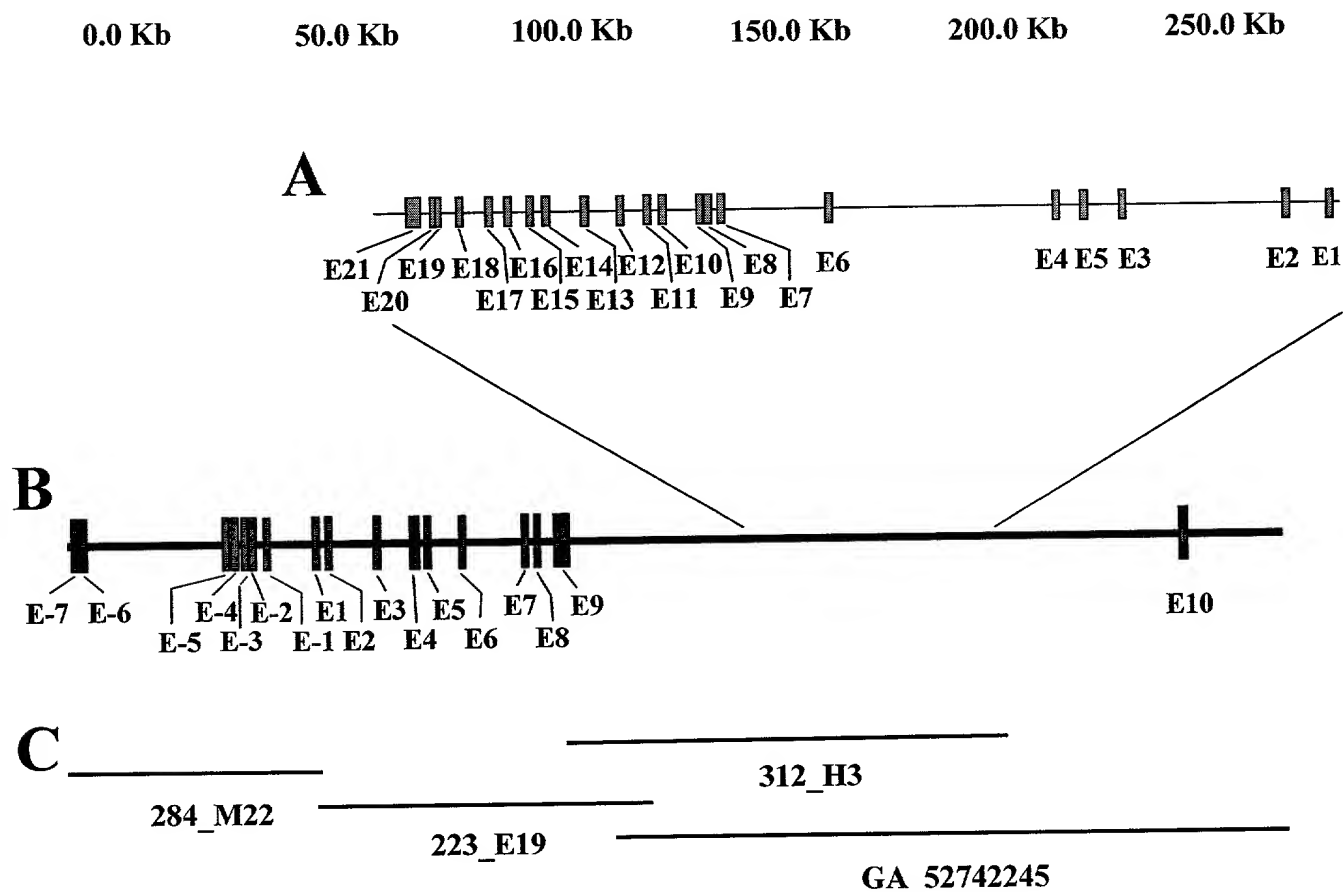
FIGURE 3

Amino Acid Sequence for the Estrogen Receptor Beta (GenBank ACCESSION
AAC05985) (SEQ ID NO:3)

```
1  mdiknspssl nspssyncsq silplehgsi yipssyvdsd heypamtfys pavmnysips
61  nvtlnleggpq rqttspnvlw ptpghlsplv vhrqlshlya epqkspwcea rslehtlpvn
121 retlkrkvsg nrcasptvgp gskrdahfca vcsdyasgyh ygvwscegck affkrsiqgh
181 ndyicpatnq ctidknrrks cqacrlrkcy evgmvkcgss rercgyrlvr rqradeqlh
241 cagkakrsgg haprvrelll dalspeqlvl tllaepphv lisrpsapft easmmmsltk
301 ladkelvhmi swakkipgfv elslfdqvr lscwmevlm mglmwrsidh pgklifapdl
361 vldrdegkcv egileifdml lattsrrel klqhkeylcv kamillnssm yplvtatqda
421 dssrklahl1 navtdalvw iaksgissqq qsmrlanllm llshvrhasn kgmehl1nmk
481 cknvvpvydl llemlnahvl rgckssitgs ecspaedsks kegsqnpqsq
```

FIGURE 4

Estrogen Receptor Beta

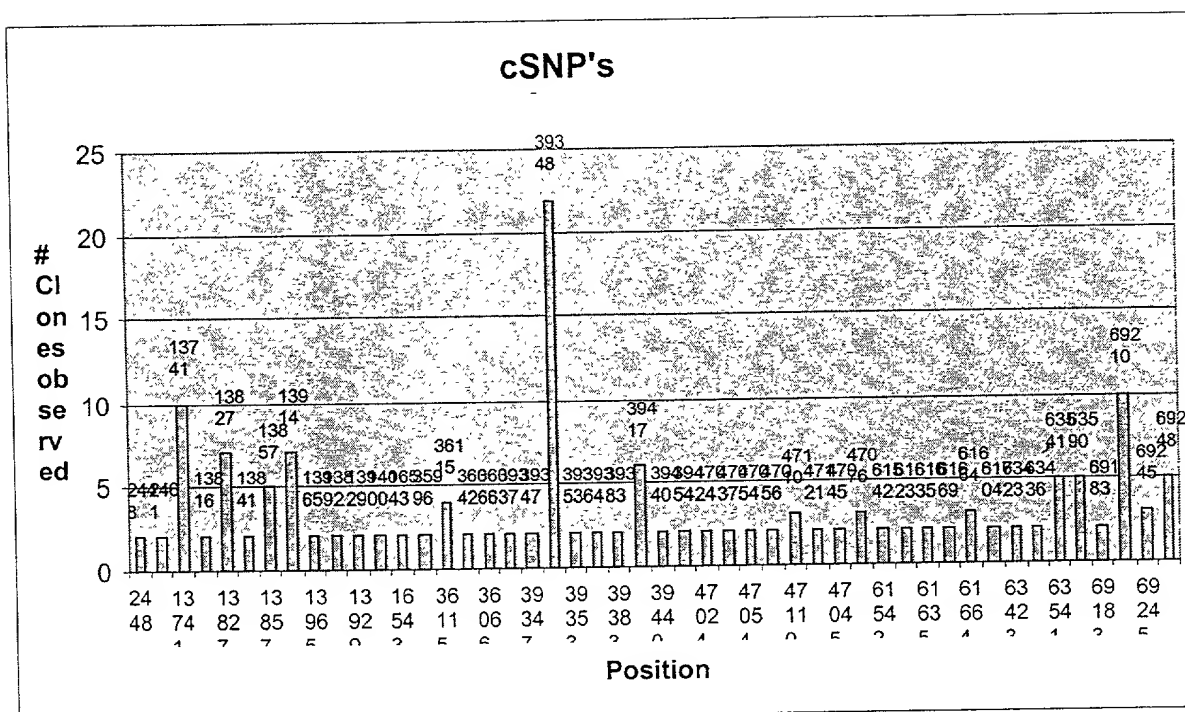


(A) Complete structure of the human synaptic nuclei expressed gene 2 (syne-2) contained within intron 9 of ER β . Exons are represented by filled boxes and introns by horizontal lines. Note that the gene is on the opposite strand as ER β . (B) Complete structure of the human estrogen receptor beta (ER β). Exons are represented by filled boxes and introns by horizontal lines. (C) Order and names of contigs used to complete the genomic sequence. GA numbers represent Celera contig numbers. Research genetics BAC clones are represented by standard plate and well numbering.

FIGURE 5

ESR2 Genomic Structure

[illegible]

[illegible]

		exon -7 49904		exon -7 49934		exon -7 49994		exon -7 49671		exon -7 83980		exon -5 85938		exon -4 89837		exon -2 89889	
		T	C	C	A	G	A	A	T	G	A	A	G	G	A	A	G
total	total	0.96	0.041	0.96	0.04	0.99	0.01	1	0	0.95	0.05	0.77	0.23	0.93	0.07	1	0
N.Eur	N. Eur	1	0	1	0	1	0	1	0	1	0	0.7	0.3	1	0	1	0
a01	GM03715	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	0	0	2	2	0	2	0
a02	GM06816	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a03	GM10923	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a04	GM10924	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a05	GM11814	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a06	GM12136	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a07	GM12137	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a08	GM12547	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a09	GM12548	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a10	GM14667	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
Chi	Chi	0.95	0.05	0.95	0.05	0.95	0.05	1	0	1	0	0.85	0.15	0.95	0.05	1	0
b01	GM00576	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b02	GM03433	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
b03	GM06090	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b04	GM07426	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b05	GM09820	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0
b06	GM11321	1	1	1	1	2	0	2	0	2	0	1	1	2	0	2	0
b07	GM11322	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b08	GM11323	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
b09	GM11324	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b10	GM11325	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
In Pak	In. Pak	1	0	1	0	1	0	1	0	1	0	0.75	0.25	0.95	0.05	1	0
c01	GM01032	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c02	GM01225	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
c03	GM04300	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
c04	GM07895	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c05	GM10176	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
c06	GM10666	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c07	GM10667	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
c08	GM11213	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0
c09	GM11860	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c10	GM14611	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
Af. Amer	Af. Amer	1	0	1	0	1	0	1	0	1	0	0.55	0.45	0.9	0.1	1	0
d01	GM14660	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0
d02	GM14661	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0
d03	GM14663	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
d04	GM14665	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
d05	GM14672	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d06	GM14682	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
d07	GM14683	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
d08	GM14696	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
d09	GM14698	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
d10	GM14700	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
Nat. Amer	SW Amer. Ind	0.85	0.15	0.85	0.15	1	0	1	0	0.75	0.25	1	0	0.85	0.15	1	0
e01	GM12060	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
e02	GM12061	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
e03	GM12062	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e04	GM12063	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0
e05	GM12064	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0
e06	GM14308	1	1	1	1	2	0	2	0	1	1	2	0	2	0	2	0
e07	GM14309	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e08	GM12310	1	1	1	1	2	0	2	0	2	0	2	0	2	0	2	0
e09	GM14311	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0
e10	GM14313	1	1	1	1	2	0	2	0	1	1	2	0	2	0	2	0

FIGURE 8a, sheet 1 of 2

	exon -2 90090		exon 9 160165		exon 9 160376		exon 9 160602		exon 10 303073		exon 10 302972		exon 10 302848		exon 10 302699		exon 10 302681		exon 10 302556	
	A	G	A	G	C	G	G	C	T	C	G	T	A	G	T	C	C	T	A	G
total	1	0	0.99	0.01	0.89	0.11	1	0	0.99	0.01	0.93	0.07	0.98	0.02	0.79	0.21	0.97	0.03	0.77	0.23
N.Eur	1	0	1	0	0.89	0.11	1	0	1.00	0.00	0.94	0.06	0.89	0.11	0.83	0.17	1.00	0.00	0.83	0.17
a01	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a02	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
a03	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
a04	2	0	1	n/a	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
a05	2	0	2	0	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
a06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a07	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0
a08	2	0	1	n/a	1	1	2	0	2	0	2	0	2	0	1	1	2	0	1	1
a09	2	0	2	0	1	1	2	0	2	0	1	1	2	0	1	1	2	0	1	1
a10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
Chi	1	0	1	0	0.83	0.17	1	0	1	0	1.00	0.00	1.00	0.00	0.85	0.15	1.00	0.00	0.75	0.25
b01	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
b03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b05	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b06	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	1	1	2	0	1	1
b07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
b08	2	0	n/a	n/a	n/a	n/a	2	0	n/a	n/a	n/a	n/a	2	0	1	1	2	0	1	1
b09	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
b10	2	0	1	n/a	0	2	2	0	2	0	2	0	2	0	2	0	2	0	2	0
In Pak	1	0	1	0	1	0	1	0	1	0	0.90	0.10	1.00	0.00	0.85	0.15	1.00	0.00	0.80	0.20
c01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
c04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c05	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
c08	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c09	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0	1	1
c10	2	0	n/a	n/a	n/a	n/a	2	0	2	0	1	1	2	0	1	1	2	0	1	1
Af. Amer	1	0	0.93	0.07	0.72	0.28	1	0	0.95	0.05	0.95	0.05	1	0	0.55	0.45	0.85	0.15	0.6	0.4
d01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1	1	1	1	1
d03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
d04	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d05	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
d06	2	0	2	0	1	1	2	0	2	0	1	1	2	0	1	1	2	0	1	1
d07	2	0	1	n/a	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d08	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	1	1	2	0	1	1
d09	2	0	1	n/a	1	1	2	0	1	1	2	0	2	0	0	2	1	1	1	1
d10	2	0	1	1	0	2	2	0	2	0	2	0	2	0	0	2	1	1	0	2
Nat. Amer	1	0	1	0	1	0	1	0	1	0	0.85	0.15	1	0	0.85	0.15	1	0	0.85	0.15
e01	2	0	2	0	2	0	n/a	n/a	2	0	1	1	2	0	1	1	2	0	1	1
e02	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e04	2	0	n/a	n/a	2	0	2	0	2	0	1	1	2	0	1	1	2	0	1	1
e05	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0	1	1
e06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e08	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e09	2	0	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0
e10	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0

FIGURE 8a, sheet 2 of 2

	exon -7 49904		exon -7 49934		exon -7 49994		exon -7 49671		exon -5 83980		exon -4 85938		exon -2 89837		exon -2 89889		exon -2 90090	
	A	G	C	A	A	G	A	T	G	A	G	A	C	T	T	C	T	C
	1.00	0.00	1.00	0.00	1.00	0.00	0.98	0.02	1.00	0.00	0.71	0.29	0.85	0.15	1.00	0.00	1.00	0.00
T1	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T2	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T3	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T4	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T5	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0
T6	2	0	2	0	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0
T7	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
T8	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
T9	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
T10	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
T11	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
T12	2	0	2	0	2	0	2	0	n/a	n/a	1	1	1	1	2	0	2	0
T13	2	0	2	0	2	0	2	0	n/a	n/a	1	1	1	1	2	0	2	0
T14	2	0	2	0	2	0	2	0	n/a	n/a	0	2	2	0	2	0	2	0
T15	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
T16	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
T17	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T18	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
T19	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
T20	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	n/a	n/a
T21	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
T22	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T23	2	0	2	0	2	0	2	0	2	0	2	0	n/a	n/a	n/a	n/a	2	0
T24	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
T25	2	0	2	0	2	0	2	0	2	0	0	2	n/a	n/a	2	0	2	0
T26	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T27	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T28	2	0	2	0	2	0	2	0	n/a	n/a	0	2	2	0	2	0	2	0
T29	2	0	2	0	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0
T30	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T31	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	n/a	n/a	2	0
T32	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
T33	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
T34	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
T35	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
T36	2	0	2	0	2	0	2	0	n/a	n/a	2	0	1	1	2	0	2	0
T37	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
T38	2	0	2	0	2	0	2	0	n/a	n/a	0	2	2	0	2	0	2	0
T39	2	0	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0
T40	2	0	2	0	2	0	2	0	n/a	n/a	1	1	1	1	2	0	2	0
T41	2	0	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
T42	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
T43	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
T44	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
T45	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T46	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
T47	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
T48	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0

FIGURE 8b, sheet 1 of 6

	intron 3 126711		exon 5 130189		intron 7 154138		intron 7 154202		exon 8 154431		exon 9 160052		exon 9 160089		exon 9 160165		exon 9 160376	
	A	G	G	A	G	A	A	G	G	A	A	G	A	G	A	G	C	G
	0.98	0.02	0.99	0.01	0.97	0.03	0.98	0.02	0.64	0.36	0.64	0.36	0.83	0.17	0.92	0.08	0.91	0.09
T1	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T2	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
T3	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0
T4	2	0	2	0	1	1	2	0	1	1	1	1	2	0	2	0	2	0
T5	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
T6	2	0	2	0	2	0	2	0	1	1	2	0	0	2	2	0	2	0
T7	2	0	2	0	1	1	2	0	1	1	2	0	1	1	2	0	2	0
T8	2	0	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
T9	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T10	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T11	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
T12	2	0	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
T13	2	0	2	0	2	0	2	0	2	0	2	0	1	1	1	1	1	1
T14	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T15	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T16	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
T17	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T18	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T19	2	0	2	0	1	1	2	0	1	1	1	1	2	0	2	0	2	0
T20	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T21	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T22	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2	0	2
T23	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
T24	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2	0	2
T25	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T26	1	1	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T27	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T28	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T29	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T30	1	1	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T31	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T32	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
T33	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T34	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T35	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T36	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0	2	0
T37	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
T38	2	0	2	0	2	0	2	0	1	1	2	0	2	0	1	1	1	1
T39	2	0	2	0	2	0	2	0	2	0	2	0	1	1	1	1	1	1
T40	2	0	2	0	2	0	2	0	1	1	2	0	0	2	2	0	2	0
T41	2	0	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
T42	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T43	2	0	2	0	2	0	2	0	2	0	1	1	0	2	2	0	2	0
T44	2	0	1	1	2	0	1	1	2	0	1	1	2	0	2	0	0	2
T45	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T46	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T47	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T48	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0

FIGURE 8b, sheet 2 of 6

	exon 9 160602		exon 10 303073		exon 10 302972		exon 10 302848		exon 10 302699		exon 10 302681		exon 10 302556	
	G	C	T	C	G	T	A	G	T	C	C	T	A	G
	0.99	0.01	1.00	0.00	0.93	0.07	0.91	0.09	0.88	0.12	1.00	0.00	0.85	0.15
T1	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T2	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T3	2	0	2	0	2	0	2	0	1	1	2	0	1	1
T4	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T5	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T6	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T7	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T8	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T9	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T10	2	0	2	0	1	1	2	0	1	1	2	0	1	1
T11	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T12	2	0	2	0	1	1	2	0	1	1	2	0	1	1
T13	1	1	2	0	2	0	2	0	1	1	2	0	1	1
T14	2	0	2	0	1	1	2	0	1	1	2	0	1	1
T15	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T16	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T17	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T18	2	0	2	0	2	0	n/a	n/a	2	0	2	0	1	1
T19	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
T20	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T21	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
T22	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
T23	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T24	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
T25	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T26	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T27	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T28	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T29	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T30	2	0	2	0	1	1	2	0	1	1	2	0	1	1
T31	2	0	2	0	2	0	2	0	1	1	2	0	1	1
T32	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T33	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T34	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T35	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T36	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T37	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T38	2	0	2	0	2	0	2	0	1	1	2	0	1	1
T39	2	0	2	0	2	0	1	1	1	1	2	0	1	1
T40	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T41	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T42	2	0	2	0	1	1	2	0	2	0	2	0	1	1
T43	2	0	2	0	1	1	2	0	1	1	2	0	1	1
T44	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	1	1
T45	2	0	2	0	2	0	n/a	n/a	1	1	2	0	1	1
T46	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T47	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
T48	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

FIGURE 8b, sheet 3 of 6

	exon -7 49904		exon -7 49934		exon -7 49994		exon -7 49671		exon -5 83980		exon -4 85938		exon -2 89837		exon -2 89889		exon -2 90090	
	A	G	C	A	A	G	A	T	G	A	G	A	C	T	T	C	T	C
	96	0	96	0	94	0	94	2	52	0	67	27	75	13	92	0	94	0
	1.00	0.00	1.00	0.00	1.00	0.00	0.98	0.02	1.00	0.00	0.70	0.30	0.83	0.17	0.99	0.01	0.99	0.01
B1	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
B2	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
B3	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
B4	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
B5	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
B6	2	0	2	0	2	0	2	0	n/a	n/a	1	1	1	1	2	0	2	0
B7	2	0	2	0	2	0	2	0	n/a	n/a	2	0	1	1	2	0	2	0
B8	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
B9	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
B10	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B11	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
B12	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
B13	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
B14	2	0	2	0	2	0	2	0	n/a	n/a	0	2	2	0	2	0	2	0
B15	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	n/a	n/a	2	0
B16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0
B17	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
B18	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B19	2	0	2	0	2	0	2	0	n/a	n/a	2	0	1	1	2	0	2	0
B20	2	0	2	0	2	0	2	0	n/a	n/a	0	2	2	0	2	0	2	0
B21	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B22	2	0	2	0	2	0	0	2	2	0	n/a	n/a	2	0	2	0	2	0
B23	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B24	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B25	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B26	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B27	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	1	1
B28	2	0	2	0	2	0	2	0	2	0	0	2	1	1	2	0	2	0
B29	2	0	2	0	2	0	2	0	n/a	n/a	2	0	1	1	2	0	2	0
B30	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
B31	2	0	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
B32	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
B33	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	2	0	2	0	2	0
B34	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B35	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0
B36	2	0	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0
B37	2	0	2	0	2	0	2	0	n/a	n/a	2	0	1	1	2	0	2	0
B38	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
B39	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
B40	2	0	2	0	2	0	2	0	n/a	n/a	1	1	1	1	2	0	2	0
B41	2	0	2	0	2	0	2	0	n/a	n/a	2	0	1	1	2	0	2	0
B42	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B43	2	0	2	0	2	0	2	0	n/a	n/a	2	0	1	1	2	0	2	0
B44	2	0	2	0	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B45	2	0	2	0	2	0	2	0	n/a	n/a	1	1	2	0	2	0	2	0
B46	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B47	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B48	2	0	2	0	2	0	2	0	n/a	n/a	1	1	1	1	1	1	2	0
	92	0	92	0	92	0	90	2	42	0	62	26	80	16	93	1	95	1

FIGURE 8b, sheet 4 of 6

	intron 3 126711		exon 5 130189		intron 7 154138		intron 7 154202		exon 8 154431		exon 9 160052		exon 9 160089		exon 9 160165		exon 9 160376	
	A	G	G	A	G	A	A	G	G	A	A	G	A	G	A	G	C	G
	94	2	95	1	93	3	94	2	61	35	61	35	80	16	88	8	87	9
	1.00	0.00	0.98	0.02	0.97	0.03	0.97	0.03	0.67	0.33	0.60	0.40	0.85	0.15	0.91	0.09	0.90	0.10
B1	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B2	2	0	1	1	2	0	1	1	2	0	1	1	2	0	2	0	1	1
B3	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0
B4	2	0	2	0	1	1	2	0	1	1	1	1	2	0	2	0	2	0
B5	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B6	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0	2	0
B7	2	0	2	0	1	1	2	0	1	1	2	0	1	1	2	0	2	0
B8	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
B9	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0
B10	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
B11	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B12	2	0	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
B13	2	0	2	0	2	0	2	0	2	0	2	0	1	1	1	1	1	1
B14	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B15	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
B16	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B17	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B18	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B19	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B20	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
B21	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B22	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2	0	2
B23	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B24	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2	0	2
B25	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
B26	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B27	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B28	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
B29	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
B30	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B31	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B32	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
B33	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B34	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B35	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B36	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0	2	0
B37	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
B38	2	0	2	0	1	1	2	0	1	1	2	0	2	0	1	1	1	1
B39	2	0	2	0	2	0	2	0	2	0	2	0	1	1	1	1	1	1
B40	2	0	2	0	2	0	2	0	1	1	2	0	0	2	2	0	2	0
B41	2	0	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
B42	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B43	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
B44	2	0	1	1	2	0	1	1	2	0	1	1	2	0	2	0	0	2
B45	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0	2	0
B46	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
B47	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B48	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
	96	0	94	2	93	3	93	3	64	32	58	38	82	14	87	9	86	10

FIGURE 8b, sheet 5 of 6

	exon 9 160602		exon 10 303073		exon 10 302972		exon 10 302848		exon 10 302699		exon 10 302681		exon 10 302556	
	G	C	T	C	G	T	A	G	T	C	C	T	A	G
	95	1	94	0	86	6	71	7	83	11	94	0	80	14
	0.99	0.01	1.00	0.00	0.92	0.08	0.93	0.07	0.90	0.10	1.00	0.00	0.83	0.17
B1	2	0	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B2	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B3	2	0	2	0	2	0	2	0	1	1	2	0	1	1
B4	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B5	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B6	2	0	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	n/a	n/a
B7	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B8	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B9	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B10	2	0	2	0	1	1	2	0	1	1	2	0	1	1
B11	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B12	2	0	2	0	1	1	2	0	1	1	2	0	1	1
B13	1	1	2	0	2	0	n/a	n/a	2	0	2	0	1	1
B14	2	0	n/a	n/a	n/a	n/a	n/a	n/a	1	1	2	0	1	1
B15	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B16	2	0	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	1	1
B17	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B18	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B19	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B20	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B21	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B22	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
B23	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B24	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B25	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B26	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B27	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B28	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
B29	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B30	2	0	2	0	1	1	2	0	1	1	2	0	1	1
B31	2	0	2	0	2	0	2	0	1	1	2	0	1	1
B32	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B33	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B34	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B35	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B36	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B37	2	0	n/a	n/a	2	0	n/a	n/a	2	0	2	0	1	1
B38	2	0	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B39	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
B40	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B41	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B42	2	0	2	0	1	1	2	0	1	1	2	0	1	1
B43	2	0	2	0	1	1	2	0	1	1	2	0	1	1
B44	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B45	2	0	2	0	1	1	2	0	1	1	2	0	1	1
B46	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
B47	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B48	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	95	1	74	0	70	6	67	5	77	9	86	0	70	14

FIGURE 8b, sheet 6 of 6

ER2 Exons with SNPs (v3.0)

ER2 exon -7 (AB006589: 1-199, 49552-49750 of SEQ ID NO: 1)
CACGCGGGCTTCATAAGCTAGTAGTCCAGTTAACTGTGcgaga
ggggacgctccctcctcgtagcgctccacactggagaaaggaataaatgga
gcatggtcctgggaagcctgacaggcgcgcgagctgggatgctggaga
ggactggcccttgAgttactgagtcgatgaatgctgctgctgctg
aggaaccgcgctcaggtacagtcacatcccaatatggtctggaagGTGCGT
GGTTCAGGTCACTTAGGACTTGACCCAGATACCGGGTTCTTTTACAAGCC
GTTTCTGACGGTGGCTGTTTCAACTACTGGCAGAGCTCATGTAAACAG
ACTTTTAAAAAATTTGGGGGCTTTTAGTATTTTTTTCTTATTCCTATA
TTCTGAGGATATTTTATAGTAGTCCACATATGGAATTAGATAATCTCTT
TTTTGTTTGTATTAACAGTTTATCAAGTATAATGTACATACCATAACGTT
CACCCATTTTAAATGGATTCAATGATTTTTTAGCATATTTACAGAGTGGTGC
AACC

49671 A/T 3 (C, S) *

49904 A/G 3 (C, S)

49994 A/G 2

ER2 exon -6 (AB006589: 200-507, 50928-51235 of SEQ ID NO: 1)
GAAATAAGGTGATACTGGAAGGACCAGGTTTTGGGGGTACAATC
ATAAGTTGGCTTTAAATGTTTTTAAATACCTTGCTCTTAGacatccaa
gtggagatatggcatttaattcatgagattggatgagatccaccacaaag
gaacaggtttaggtggagacaaccaaataccgatgcctaggacactgcag
tggttagaattcaaggagatgagaaggaaacaggagggaagattgaaaag
aaggtccagtggttatgaggaaaaccccaagagcagatgctgccttaca
gacaggtgaaaaatgttctgtgaaagaaagagtaataactgtttaa
gttacagactgatcaataaaatgaagactgagaatggcctgtttgtgaag
GTAATAAAAATACATAAAATCTTATGATAGAAATATTTATACATAAAGTT
AGTAAGAAACAGTGTCTTCTCTTTTGTAGAAGTGTAATTTTACAA
CCATTTTGAAGGCAGTTTGATATTAATCTCAACTTAAAAATGTGCTTCC
ATTGATAATTTACCTGT

ER2 exon -5 (AB006589: 508-691, 83858-84041 of SEQ ID NO: 1)
GGCACAATAGTAAGCAAAATCATAAATGCTGAGTGAATGAAATATTAATGA
ATAAAAAGGAAAATTTTGTGCTGCTATTGGAAATTAGCTCTCTATATATT
TCAACATGTTACACATATACATGATCTAAAACTTGCTTACTCTTTCC
TATCCACTAGaggagacatcaacctgtgtggaagaaatgatcactta
aagctcttagaaattctgaaccaactctctagcaggtgatcctgttaga
atttgagcccttaacgctatccaggactggaggttgaggacgatagag
ggagcaggaggaGAATGCACATGGATTAAAGGAGCGAGAACACAGGTGAAC
TTCAGCTTTTGTGTAACAGTACAGCAAACTACTGACCTGACTCAGTGA
TGTGCTAGTAAACAGCTCTTTAAAAAAGCCCTAGATTGCT
GATTGTATGTAATGTTTATGAATTTAGTAGAGAAAAAGACAATATCA
AACTGAGCCATGACCCCAAAACAAGAGAACAGCCAGAGTGTTCATTC
TATCAGTGCCTGGGTT

83980 G/A 3 (S)

ER2 exon -4 (AB006589: 692-903, 85942-86154 of SEQ ID NO: 1)
GTCTGAAGGGCACACAACTAGGAAGTGTGTGTGCT
GAAAAACCCACCTAGGCCCAAGCCTTGGAACCTCCAAGCCTGGGTTCATC
CCTGCACCTGGGCAATTCGTATGTGCGCTAGTTTCTTGTGTCTCT
GTTCTCTCCGTAGaaatcctgggtctcttctccagccacaaggtagg
ttgaaaaacagagcagatggaggtagttgtgacctacaggtgccctgaa
tgaagcttccacagtgctaagtggaagaaacgagggactccaagggaaag
attcaaggctgggcccataagcctgtgtaattcagaagagacccagag
agatcagcgcctctaattagccctgTAAGGAGCTCTGGGAGTTACTGT
AACTCTCTCAGAAAGAACCAACATCGGGAACGTGACTTCTTACCTTCT
GAAAGTCCACAAAATTCCTGATGCCACCATTAATTTGTC

85938 G/A 2, 3 (N, C, I, A)

ER2 exon -3 (AB006589: 904-997, 89037-89130 of SEQ ID NO: 1)
GGGGCAGTGGACAGGACAAAAAGTTATTTTACCTGTTTGT
TTACAAATAGCAAGATCAAGACTGAAACACATGAGTGTGATTAGAAAG
AGTTGGCTGCAGGTGCTTGTCTCAGGTGTTTCATTAAACTGCAGGTC
AGAGCAACCTTGTCTCATGTCTGTTGCCAGGTATCAGGTGGGTCTG
TCTTGTCTTATGTCTTGTACCTCTGAGGGCCCCAGTCCAAACGCAG
ATCAATAAAGAATAAGTTACATAAATATGCTCATAGGTGGTCATTCTAG
ACAAGAAAATTGACAAACATTTCAATCAACAGtatctgggctctacaggaca
gacatgcctccattatgcaacaaataaagaacagcatctcatgacagtgg
agaaaacatgggtgtgcaggtaggTAGGTAAAGTTGGGTGGAAACTTTC
ACCTTACCAAAATGCACATGGGTGACTTTATATAAATAATGTTAGCTCTCT
GAGCCTCAGTTTCCCC

ER2 exon -2 (AB006589: 998-1185, 89803-89988 of SEQ ID NO: 1)
TTCTCTCCTTTCCCTCCACTTTTCCTA
TTAGCTTTTGTCTTTTGCCTTTACAGggttttggtttgcctcttggta
gtttctttcctaCggaaaaattctccctctgatctttccaagtcaaaggct
tcagcaaacatttgttgaacggtggttggtagtgggtgggtggttggga
ccatggagaatgctagagatgaagacatgcgctgtccaatcgacgcga
gggtgtgtgacagTAAGATGAGGGCTGTGGGGAGCCAATGTGCACGT
TCCACTGGGCTAATGTGCTCTTCACCTTATTTAGGCTCTTGGCTTTGGGA
TGTTAAGACTTTGTCTAGACAGAGAAGGGGTGGGGTGAGAAAGATGAGGAA

89837 C/T 2, 3 (C, I, A, S)

90090 T/C 2

G

FIGURE 9, sheet 2 of 7

ER2 exon -1 (93111-93488 of SEQ ID NO: 1)
TGCATATTTCTAGGCCCTACATCCAGACCTCTTAATCTGAGAC
TGGGCTGGGGAGGCCATCTGTGCGCCACTATCCTTGTGGTGGACC
AGGATCGGTTTCAGGGTCTCCACCTTAGAGGTACCGCGGCGTCGGG
CGTTCTGAGACCGTCGGGCTCCCTGGCTCGGTACGTGGGCTCAGGCAC
TACTCCCTCTACCCCTCCTCTCGGTCTTTAAAGGAAGAAGGGCTTATC
GTTAAGTCGTTGTGATCTTTTCAGTttctccagctgctggtttttgga
caccactccccgccaggagcagttgcaagcgcggaggctgcgagaaa
taactgcctcttgaaacttgcagggcgaagagcagcgcgcgagcgtggg
ccgggagggaccaccccgagctgcgacgggctctgggctgcgggacag
gctggcccgagcctgagctgcaggaggtgcgtcgtcttccccaaca
ggtggcggcgggcgcgccgggagagacccccctaatcggggaaaaagca
cgtgccgcatttttagaagagcagcgcggtggtttatctgcaagGTA
AGCGCCCTTCGCTCGAGGTGTGGTTTAATTGTCTCATTTTGTGTGAAAT
CCTGCGGTGAGAAACCAAGTCGTGTGAGAACAAATAAAGACCAAAAAACG
ATCACCAAAACCAACTGTCTGAAAGCTACTGGAAAGTTGGAAAAATGCA

ER2 exon 1 (104446-104897 of SEQ ID NO: 1)
CTCACATT
CCCACTCCTCTGAGGTAAATAATTTTCATGTATATTTTTCAGGATGTATTT
GTAATCTCATACAAACGTAATGTAATTTTAAATGAAAATATTTAAATTTT
CATAGTTAACAGCTGTAGCTCTAACTTGGCAATATCTTCTGTGTTTCTTT
ACAGccattatacttgcccacgaatctttgagaacattataatgaccttt
gtgcctctcttgcaaggtgtttctcagctgttatctcaagacatggat
ataaaaaactcaccatctagccttaattctccttccctccctacaactgcag
tcaatccatcttaccctggagcagcggctccatatacataccttccctcct
atgtagacagccaccatgaatatccagccatgacattctatagccctgct
gtgatgaattacagcattcccagcaatgtcactaactggaaaggtggcc
tggtcggcagaccacaagcccaaatgtgtgtggccaacacctgggcacc
tttctccttttagtggtcctatgccagttatcacatctgtatgcggaaacct
caaaagagtcctgtgtggaagcaagatcgctagaacacaccttacctgt
aaacagGTAAGTCCAGTCTTCATTCTGAATTATAGTTGTAGCCATTCT
CAAAATCACTTTATGTTGAGTGAGAGGAAATAATATGTTAGACAAGGTC
TTTATTGTATTAATTACATAGTTTACTTACAGCACCCCAAAACACAGGATG

FIGURE 9, sheet 3 of 7

ER2 exon 2 (107368-107540 of SEQ ID NO: 1)
TTTTCCTAGAAAGCCCTTCCTTTCCCTTTATGCTCTGTT
CAATGGATAATTTTCTTTGCTCCCTAGagagacactgaaaaggaggttag
tgggaaaccgttgccagccctgttactggtccaggttcaaaaggaggtg
ctcacttctgcgtgctgcagcgattacgcatacgggatactactatgga
gtctgctgctgtaaggatgtaaggccttttttaaaagaagcattcaagG
TACAAGAGAAATTGTTAACTGCTTCTTTAGTTTCCCTACTTTTGATTTCAAA
CAATTTGCAGAGATGACTTGGCAGAAATGTCACACTACTGGCCTGTTTGGC
ACACAAAGTATTTGATGAGCAGTTTCAGAGGATCAIGTGTGTTTGGAAAGTG
GGTTG

ER2 exon 3 (118610-118726 of SEQ ID NO: 1)
GTAGCTTGACTTTGGCTTTGTACCTGTACTGGT
CATTAAAGAAGATGTCCTTATCTCTCAGCTGGAAGTGTATCAGTGTG
TTGACCAGGAAGAGATTTAACTAAGAGATCATAGCAATAATCTTTTTTC
CCTCCCACTCTGTATAGacataaatgattatatattgtccagctacaaat
cagtgtaacaatcgataaaacccggcgaagctgccaggccctgccgact
tcggaagtgttacgaagtgggaatggtgaagtgtgtagtgcttGTCTTC
CCTTCTTATTGAATATGGCCTTGCTAAAAGCCCTGTCTCTGAGGAACT
GGGACAGGTAGCCGGGAAAAGAGAAATTTGGGACATAGTAATTAAGTA
TTTGCCTGTTGTACATTTGAGGGGCATTGACTTATCCACAGTAACTGC
AGAGACAGAGCTGGGTGAATGGGAACAGATTATGGGAGGCAG

ER2 exon 4 (126774-127073 of SEQ ID NO: 1)
CTGGAATGGAGACCTAAAAAGTTTCTGAAAAAGTTATGTCGTTGGT
TTTGTGTAGTACGGTCACGACCATAGTAATCTTTGGTACGTGCCCCACAGG
CTCCAGAAAAATAAAAGTCAAGCTGCTTTTGTCTTGACTGCGGTTTACCCCT
GGCAATTGCAATGACTCTGCTTTCCCTCTTCAGgctcccggagagagagat
gtgggtaccgccttgtgcggagacagagaagtgcgcagcagcagctgcac
tgtgcggcaaggccaaagagaagtggcgccacgcgccccgagtgcgga
gtgctgctggacgcctgagccccgagcagctagtgctacccctcctgg
aggctgagccgccccatgtgctgatcagccgccccagtgcccccctcacc
gaggcctccatgatgtgtccctgacaaagtggccgacaaaggagttgggt
acacatgatcagctgggccaagaagattcccgtAGGGCTTTCTGGCTAT
CAGTTTTCATGTACTGTAGAAAGCCGCCGCTAAATATTAAAGGGCA
AGAGTACAAAGTAGAGTCCATGAGCTGTGCCCTAGATATTAAACAGGTCC
TCAGCTGGATTTGTAACTTTTAAGTGCAATATGTTCCCTTCCTTCTGTCCTT
GGCATACCTTCAACACAGGCCGTGT

126711 A/G 2

ER2 exon 5 (130158-130296 of SEQ ID NO: 1)

GGTCGTAGTCTTGACAAACTCTAAATGAAGTATA
TTTTGTCTCTAGAAAGGGTCCAAAGACTGGAACCTAAAGTTGCGCAGCTTAAC
TTCAAAGTTTTCTCTTCTTAATGAGCAGTTAATCACATCTATAAAATATC
AACTCCCTAATGTTTGTGTTTCTTAGTGTTTTAAACACTTGCCATTCTG
TCTCTACACACACAGGAGCTCAGAGAGGGGTGGGGTGTCTCACCGC
CTCTTGTCTTCCACAGcttbtgtggagctcagcctgttcgaccaagtGcg
gctcttgagagctgttgatggaggtgttaatgatggggctgatgtggc
gctcaattgaccaccccgcaagctcatcttctccagatcttgttctg
gacagGTGAGAAAAAATACATTGTGTTCTCTCTGACTTGTTTGAGTAA
GGTGCTTAGTGAGTGGGAACAAAAGTCTCTGGGTGCTGCAATTAAAAATCTCA
CACTTGCGAGGCGAGGATGATAGCATCAT

130189 G/A 1, 2, 3 (C), 4 (As), public

ER2 exon 6 (137853-137986 of SEQ ID NO: 1)

TTTCATATT
GCTGGGTGTTGTTCTCATTTAAACACCCCTGTTGTAGTTAAAAATGATATTATCA
GATGAACATGTTACAAAGATGAAACTTGAGATTAAAAATAAAACATTTCCTT
ATTGTTTTTTTGTATGGTTTCTGAAAGCTATGTTCCCTTAAATTTCCAAACG
AACTTTTGTAGgataaggggaaatgcgtagaaggaattctggaaatctt
tgacatgctcctggcaactaactcaaggttctcgagagttaaaactccaac
acaaagaatatctctgtgtcaaggccatgatcctgctcaattccaGTAAG
TAATCACACAGCTGGGCCATGTTTATCGGGGAGAGATGCTGTTTCTACA
ACTAGCGTGATATTAAAGAAATGTTGAACTTCTATTATTATTGAAAAGGG
TAAATGGTTTTCTTTTGGACTTCGTTTTTATTATTGTATAGCGGATTTAAAC
TGTAGGTAACTTTTGGTTAACTTGGACATAAAATTACTCATTAAAGTGAATGA
CTGGCAATCA

ER2 exon 7 (152379-152559 of SEQ ID NO: 1)

CAGGCTTCTCTTAGCT
CTGTGACGGGGTGGCTCTCAGGGAAGATCCCTTGGGGGAGGTAAGACCA
TGCTTTATAAGTCTCTGCCACATGCAGCTGTCAAAGCAACCCAGATCAC
CTCGGAGCAGGGCACGGAACAGCTGAGCACACGACTTCTGTCTCCTTTGC
TCAGAGCAATGACTTCTGGCTTTTATTCTTTGTCCAGgtatgtacctct
ggtcacagcagccaggatgctgacagcagccggaagctggctcacttgc
tgaacccgtgaccgatgcttggtttgggtgattgccaagagcggcac
tcctccacagcagcaatccatgcgctggttaacctcctgatgctcctgtc
ccagctcaggtatgcagGTACGGCCCCTAAGGAGCTGCTCTGTCTTGGGC
TTGGGATGGGATTATGTGCTCCACGAGGGGTGAAGTGATTTGGGAAAAGT
GTCTGCAAGTTAAGGAAAAATGAATGCCTGAAAGGGAATGGGGAATTGTTC
AGTT

152603 T/C 4 (As)

ER2 exon 8 (154206-154500 of SEQ ID NO: 1)

GTGGACACAGAGGCTGACAAGACATCGTCCCTTGCCCTTGAGCCTAAA
TTATCAGGGGGAGCTGGATGTCACGAGCCATGATATAAATGGCTGGGGGAA
GAGTGGGTTTAGGGGTGGGTAGACTGGCTCTGAGCAAAAGAGAGCCGGGG
AAGGCTTCGGGGTTCCCTGTGGCTGCTCGGAGGAGGAATCTCAGCACCT
TTTTGTCCCCATAGtaacaaggcatggaacatctgctcaacatgaagtg
caaaaatgtgtcccgatgtatgacctgtctgtgagatgctgaatgcc
acgtgcttcggtgcaagtccctccatcacgggtccgagtcagcccg
gcagaggacagtaaaagcaaaagggtcccccagaaacccacagctcagtg
AagcctggccctgagtgaaactggccacagaggtcacaggtgaagcGT
GAATCCAGTGTGTACGAGGAGCCTGGGCTTCATCTTTCTGTGTGTGTC
C

154138 G/A 2

154202 A/G 2, 3 (C, A, S), 4 (As)

154431 G/A 1, 2, 3 (N, I, A), 4 (all)
3rd alt. end missing (63658)

ER2 exon 9 (159915-160827 of SEQ ID NO: 1)

ACTGAGCTTTGAGTGAAGAAGAGCTGCAGTGGCTCCCTGGAGATGGGAG
CAAACGAGCTTAAAGGCCCTTATCTGTAGGAAGAGACAAAATTGACATG
CACAAATATTAAGCTTTGAAATGCAGACCACACTTCCTTTCACTGCAACTT
TGACTTGTCCCGCATCTCTACTTAAGggcagaaaaggcctctcaaacact
caccctatttggaaatgaagatggagactctttgcctgaagcaacgatgg
agcagtgacccctctaatacaactcgggtggcctaaagaaaaatcttgggtaa
cattttcacttcaGtttccctctgggacatcattgtaatccatgaaaaaaat
AattttaaagaaagagttaaaatacTTtgaagttagttatgtggttaaaa
accaccttccttctattatcaatccAacaatttgataactgtaaacgct
aaagtgaagacggattctctcagatgggtctccttaactgcccagggtt
gcagatgtctcaccatgaggggcaccaaagttagaaagctgaggcttcat
ctactgatgagcttcactggttccctcctgaggttctgcttggcagaga
aggggagggagggactggattgtgtgtcagctgtgCctgccaacagat
gcaggttaggaactgtgtcagtatcttccaataagaaaaggggaaatgcc
gatgcctatcctcttgtttaggtagaagtaaaatgctactggacttaa
atgggcaacaagggttctgctgttcatcttggccatggagagggctggga
atccaggtgcggtgggtcacacctgtaatcccaacactttgggagggcga
ggtgggcagatcaGttgaggtcaggagtttgaaaccagcctggccaacat
ggcgaaaccccgctctctattaaaaataataattagccaggcatggtggtg
tgtgtgcttgtaatcccgactactcagagggtgagggcatgagaatggct
tgaacctggaaggcaaggttgagtgagcagagattgggcccacgcgact
ccagcctgggtgactgacagagtgagactctgtcaAAAAAAGAGTAGAG
TAAACTGGGTATAAGATCCTTCCTTTGGCTCCACCTCTCATGCCATGCT
GCCTTTGCCATTCCCTACA

160052 G/A 1, 2, 3 (N, I, A, S), 4 (all);

160089 A/G 1, 2, 3 (N, I, A, S)

160165 A/G 1, 2, 3 (A), 4 (all)

160376 C/G 1, 2, 3 (N, C, A)

160602 G/C 2

ER2 exon 10 (302474-303300 of assembled ER2 BAC,
 302474-303300 of SEQ ID NO: 1)
GACAGctctctcactctcttggagattgtttatgtcgtgagggagccag
 ctgccatggtgtgaggcagactcctggaggagccac**A**tgtctgtaagta
 gaagcagatcttttgggcctgtcaacagccacgggaatgagcttgggaag
 cagatcccacctcctccacacaaagtgcagccttcagatgagcctgca
 gcctttgcacaccttgac**T**gcattctcatgagagaccttgagccagag
 atacttagctaaagccatgcccatggactcctgacccacagaaaactgtgat
 aataagtttgtgtttcaagctgctaacttatggagtaatatgttacaca
 aaaatagctaatatatagtctcaaaactgg**A**agcaacccaaaatatctatta
 actggtagataaaacaaactactcatttccaaacttatttccaaaactgga
 acactacttggcaatcaataatctaactatgcattaaagttaacaaactg
 gat**G**aatctcaaaaggcattatgttaagtgaacaaagtgcagccacgtaaga
 ctacatactgttggattccctctatatgatattctagaaaaggcaaaact
 atagtaataggaacagtgagtgatcacctaggttgaagacaggtgaaa
 ggggattgactgcaagaggcaggaggaacgtcttgggagatggagatg
 ttcccttatattgatggcgtggtgttacacaactgcactttttactgtatgt
 cttacctaactgctacttaaaataggtgtattataatttttactgtatgt
 aaattatacctcaataaatttgatttaaaaaaCAGGCCGGGTGTGGTGGC
 TCAGGCTGTACTCCAGCAC**T**TTGGAGGTCGAGGTGGGCAGATCAGCT
 GAGGTCAGGAGTTCAAGAC**C**AGCCTTGGCCAA**C**ATGGTGAATCCTGTCT
 CTACTAAAAAATACAAAATAAGGTCAGCGTGGTTGGCACACGCCTGTAATC
TCAGCTACTGGGGAAGCTGAGGCAGAA**G**

302556 **A/G** 2, 3 (all)

302671 **C/T** 3 (A) ; 302689 **T/C** 2, 3 (all)

302848 **A/G** 2, 3 (N)

302972 **A/G** 2, 3 (N, I, A, S)

* Observed in: 1= cDNA, 2= Liverpool clinical, 3= Coriell (N, North Eur.; C, Chinese;
 A, Afric-Amer; I, Indo-Pak; S, SW Native Amer) , 4= CEPH (Ca, Caucasian; As, Asian;
 Af, Afric-Amer)

(bold = SNP position, underlined = primer sequences, lowercase = exon, bold/italics = alternative endings to exons 8 and 9 seen in different splice variants.)